FCC RADIO TEST REPORT

FCC ID	:	**A4RGLBW0**
Equipment	:	**Phone**
Model Name	:	**GLBW0**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Nov. 27, 2024 and testing was performed from Dec. 20, 2024 to Apr. 21, 2025. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR4N0919C	01	Initial issue of report	Apr. 21, 2025
FR4N0919C	02	Revise Section 2, 2.2, 3.5 and appendix A This report is an updated version, replacing the report issued on Apr. 21, 2025	May 16, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. 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.
2. 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.

Reviewed by: William Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx. **Antenna Type** WLAN: **<Ant. 3>:** IFA Antenna **<Ant. 4>:** ILA Antenna

EUT Information List	
S/N	**Performed Test Item**
4B121FDCR000BE	RF Conducted Measurement
4B161FDCR000PM 4C271FDCR000L6	Radiated Spurious Emission
4B121FDCR0006U	Conducted Emission

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant.3: 0.7 Ant.4: -1.0

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

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

For power measurements on IEEE 802.11 devices,

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

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

	Ant 4 (dBi)	Ant 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4GHz	-1.00	0.70	0.70	2.90	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT4}= -1.0dBi; G_{ANT3}=0.7dBi

Directional gain of power measurement = max(-1.0, 0.7) + 0 = 0.7 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-1.0 dBi / 20) + 10^ (0.7 dBi / 20)] ^ 2 } / 2 }

= 2.90 dBi

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane with Adapter as worst plane.

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	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

This device support 26/52/106/242.

The PSD of partial RU modes are reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel

The power for 802.11n and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps

MIMO Antenna

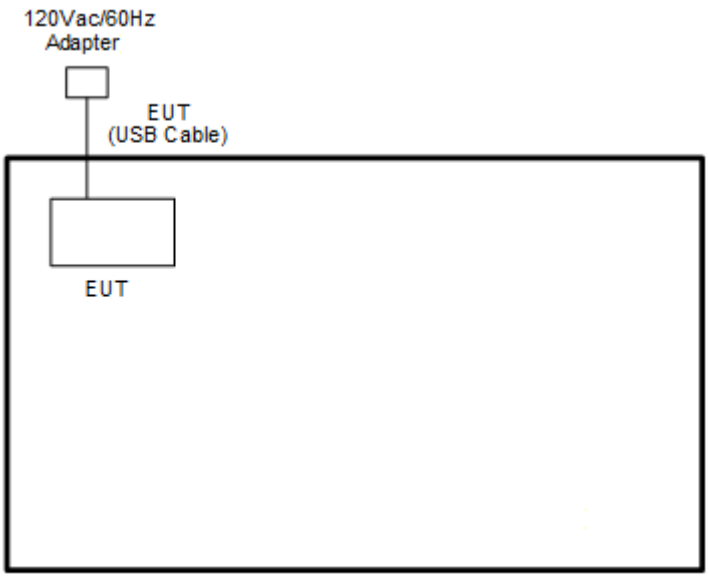
Modulation	Data Rate
802.11g	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ax HE20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Channel 06 Tx + USB cable 2 (Charging from AC Adapter)

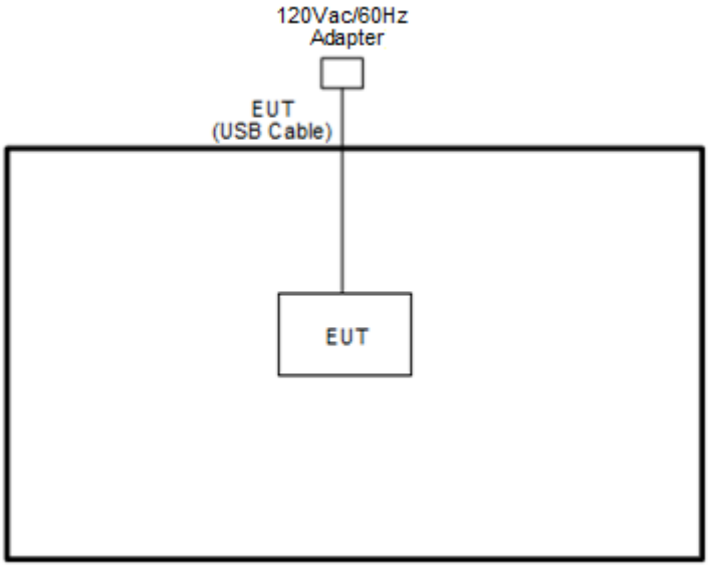
Remark:
1. For Radiated Test Cases, the tests were performed with USB Cable 2.
2. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adaptor mode is the worst case for official test.
3. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
4. The detailed Radiated test modes are shown in Appendix C.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	GW8L7	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “BTWIFI_Final_version_240823” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

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.

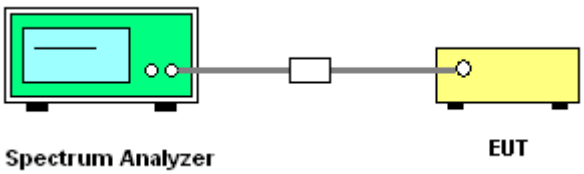
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. 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) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * 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 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi 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 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

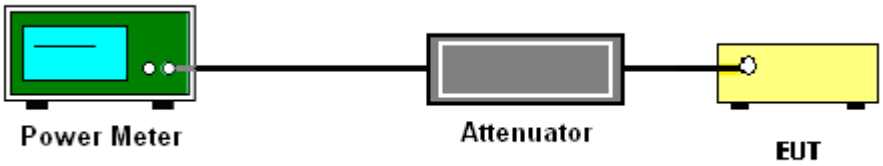
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 Average Output Power

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 8 dBm in any 3 kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

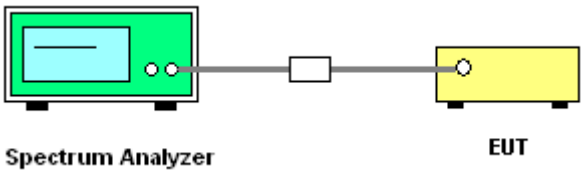
3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 (c): Measure and add 10 log(N_{ANT}) dB.

   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD 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 / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

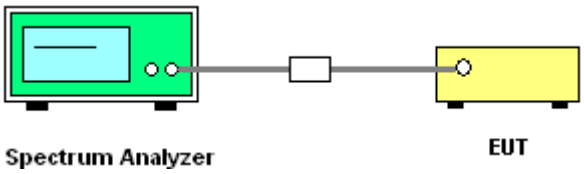
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 is 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

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

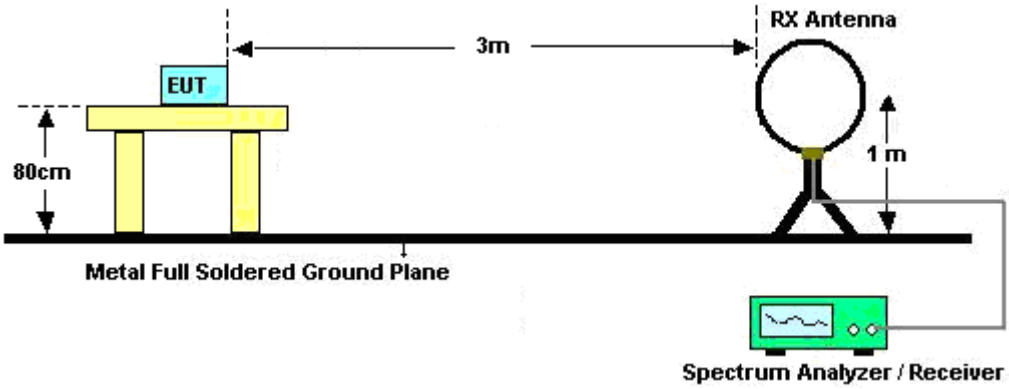
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".
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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 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.

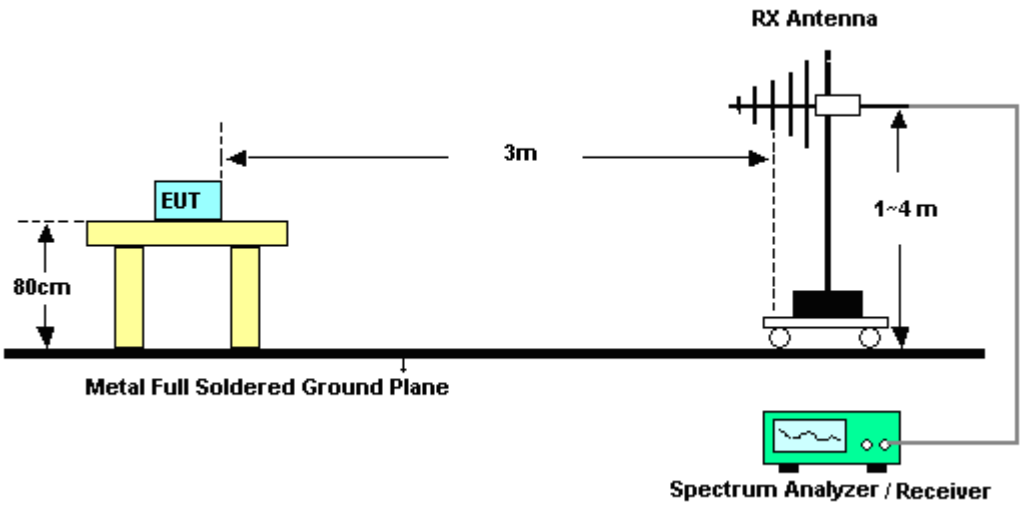
   For average measurement on HE20 channel 02 radiated band edge:
   - VBW = 3MHz, detector = RMS, trace = average
     As the duty cycle is higher than 98 percent, there is no duty factor applied to the result.

3.5.4 Test Setup

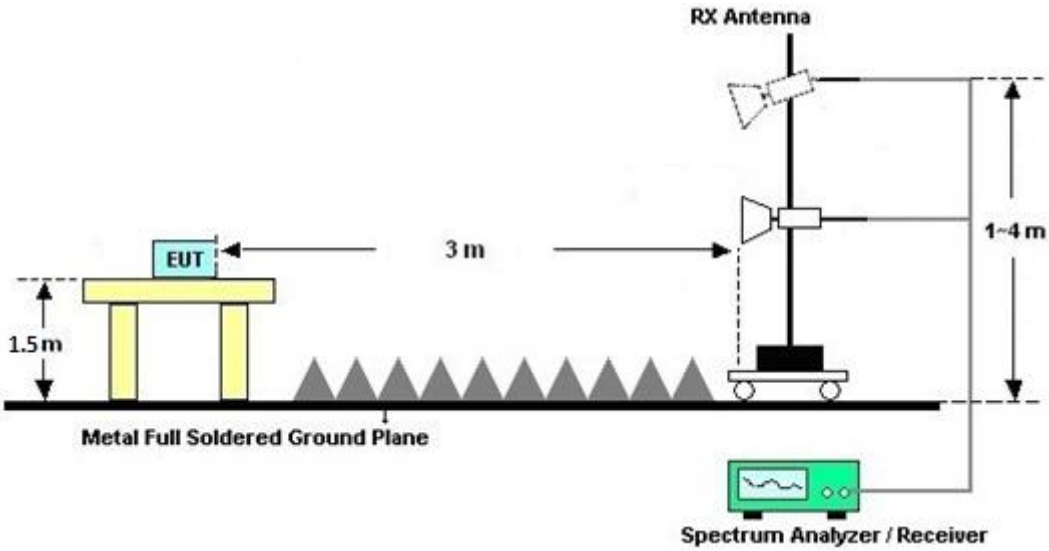
For radiated emissions below 30MHz



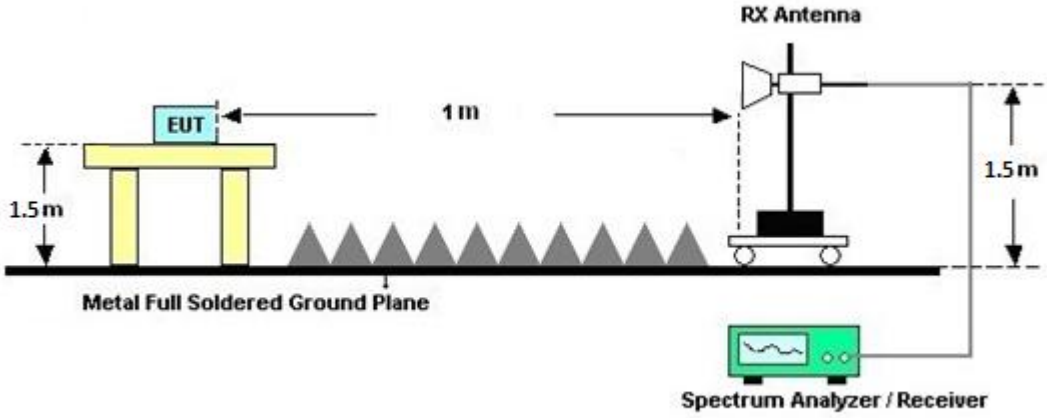
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes 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)

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 (dBμV)	
	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.

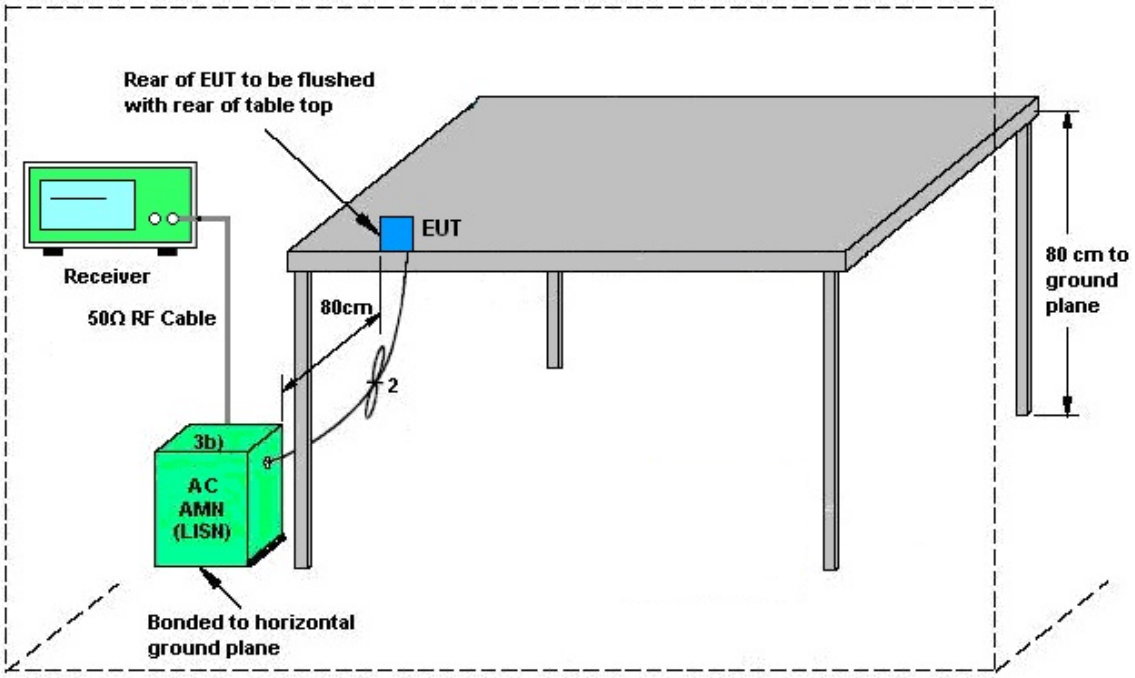
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

b) Unique (non-standard) antenna connector.

Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Dec. 24, 2024~ Mar. 13, 2025	Aug. 28, 2025	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Nov. 27, 2024	Dec. 24, 2024~ Mar. 13, 2025	Nov. 26, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 14, 2024	Dec. 24, 2024~ Mar. 13, 2025	Jul. 13, 2025	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18E N	1GHz~18GHz	Jul. 11, 2024	Dec. 24, 2024~ Mar. 13, 2025	Jul. 10, 2025	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz-40GHz	Jun. 24, 2024	Dec. 24, 2024~ Mar. 13, 2025	Jun. 23, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	Dec. 24, 2024~ Mar. 13, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060873	18-40GHz	Sep. 02, 2024	Dec. 24, 2024~ Mar. 13, 2025	Sep. 01, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	Dec. 24, 2024~ Mar. 13, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
MXE EMI Receive	AGILENT	N9038A	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Dec. 24, 2024~ Mar. 13, 2025	Sep. 08, 2025	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	Dec. 24, 2024~ Mar. 13, 2025	Dec. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 24, 2024~ Mar. 13, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 24, 2024~ Mar. 13, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 24, 2024~ Mar. 13, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	Dec. 24, 2024~ Mar. 13, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Dec. 24, 2024~ Mar. 04, 2025	Mar. 05, 2025	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Mar. 05, 2025~ Mar. 13, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,804 611/2,804615/ 2	N/A	Oct. 23, 2024	Dec. 24, 2024~ Mar. 13, 2025	Oct. 22, 2025	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Dec. 20, 2024~ Apr. 21, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 32 (NO:43)	9kHz~6GHz	Nov. 22, 2024	Dec. 20, 2024~ Apr. 21, 2025	Nov. 21, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101433	10HZ~44GHZ	Nov. 12, 2024	Dec. 20, 2024~ Apr. 21, 2025	Nov. 11, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Dec. 20, 2024~ Apr. 21, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Dec. 20, 2024~ Apr. 21, 2025	N/A	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 19, 2025~ Mar. 21, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 19, 2025~ Mar. 21, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 19, 2025~ Mar. 21, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 19, 2025~ Mar. 21, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Lisn	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 12, 2024	Mar. 19, 2025~ Mar. 21, 2025	Dec. 11, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 19, 2025~ Mar. 21, 2025	Sep. 22, 2025	Conduction (CO07-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.6 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

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

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Howard Tsai and Mina Liu	Temperature:	21~25	°C
Test Date:	2024/12/20~2025/04/21	Relative Humidity:	51~54	%

Test Result

6dB and 99% OBW

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant4	Ant3	Ant4	Ant3		
11b	1M	1	1	2412	13.94	14.03	8.54	8.99	0.5	Pass
11b	1M	1	6	2437	13.48	13.42	8.05	8.53	0.5	Pass
11b	1M	1	11	2462	13.18	13.5	8.06	8.51	0.5	Pass
11b	1M	1	12	2467	13.21	13.12	8.53	8.52	0.5	Pass
11b	1M	1	13	2472	13.13	13.17	8.56	8.55	0.5	Pass
11g	6M	2	1	2412	17.74	16.92	16.3	16.32	0.5	Pass
11g	6M	2	2	2417	17.95	18.03	16.03	16.29	0.5	Pass
11g	6M	2	6	2437	22.74	23.81	16.05	16.04	0.5	Pass
11g	6M	2	9	2452	17.86	17.95	16.31	16.03	0.5	Pass
11g	6M	2	10	2457	17.41	17.63	16.29	16.28	0.5	Pass
11g	6M	2	11	2462	16.86	16.69	16.29	16.3	0.5	Pass
11g	6M	2	12	2467	16.9	16.69	16.07	16.32	0.5	Pass
11g	6M	2	13	2472	16.93	16.76	16.32	16.32	0.5	Pass

Average Output Power

2.4GHz Band																
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
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
11b	1M	1Tx	1	2412	21.3	21.89	---	30	30	-1	0.7	20.3	22.59	36	36	Pass
11b	1M	1Tx	6	2437	21.39	21.92	---	30	30	-1	0.7	20.39	22.62	36	36	Pass
11b	1M	1Tx	11	2462	21.32	21.01	---	30	30	-1	0.7	20.32	21.71	36	36	Pass
11b	1M	1Tx	12	2467	20.49	21.03	---	30	30	-1	0.7	19.49	21.73	36	36	Pass
11b	1M	1Tx	13	2472	19.99	18.94	---	30	30	-1	0.7	18.99	19.64	36	36	Pass
11g	6M	2Tx	1	2412	16.71	17.64	20.21	30		0.7		20.91		36		Pass
11g	6M	2Tx	2	2417	18.71	19.38	22.07	30		0.7		22.77		36		Pass
11g	6M	2Tx	6	2437	20.34	21.07	23.73	30		0.7		24.43		36		Pass
11g	6M	2Tx	9	2452	18.14	18.71	21.44	30		0.7		22.14		36		Pass
11g	6M	2Tx	10	2457	16.84	17.81	20.36	30		0.7		21.06		36		Pass
11g	6M	2Tx	11	2462	14.92	15.43	18.19	30		0.7		18.89		36		Pass
11g	6M	2Tx	12	2467	13.39	14.06	16.75	30		0.7		17.45		36		Pass
11g	6M	2Tx	13	2472	6.54	7.15	9.87	30		0.7		10.57		36		Pass
HT20	MCS0	2Tx	1	2412	14.94	15.56	18.27	30		0.7		18.97		36		Pass
HT20	MCS0	2Tx	2	2417	17.72	18.37	21.07	30		0.7		21.77		36		Pass
HT20	MCS0	2Tx	6	2437	19.53	20.32	22.95	30		0.7		23.65		36		Pass
HT20	MCS0	2Tx	9	2452	17.44	18.23	20.86	30		0.7		21.56		36		Pass
HT20	MCS0	2Tx	10	2457	16.52	17.25	19.91	30		0.7		20.61		36		Pass
HT20	MCS0	2Tx	11	2462	14.03	14.51	17.29	30		0.7		17.99		36		Pass
HT20	MCS0	2Tx	12	2467	12.98	13.16	16.08	30		0.7		16.78		36		Pass
HT20	MCS0	2Tx	13	2472	8.84	9.11	11.99	30		0.7		12.69		36		Pass

2.4GHz Band																
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
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
VHT20	MCS0	2Tx	1	2412	14.97	15.6	18.31	30		0.7		19.01		36		Pass
VHT20	MCS0	2Tx	2	2417	17.76	18.56	21.19	30		0.7		21.89		36		Pass
VHT20	MCS0	2Tx	6	2437	19.55	20.36	22.98	30		0.7		23.68		36		Pass
VHT20	MCS0	2Tx	9	2452	17.5	18.25	20.9	30		0.7		21.6		36		Pass
VHT20	MCS0	2Tx	10	2457	16.58	17.29	19.96	30		0.7		20.66		36		Pass
VHT20	MCS0	2Tx	11	2462	14.06	14.53	17.31	30		0.7		18.01		36		Pass
VHT20	MCS0	2Tx	12	2467	13.01	13.22	16.13	30		0.7		16.83		36		Pass
VHT20	MCS0	2Tx	13	2472	8.94	9.21	12.09	30		0.7		12.79		36		Pass

Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass /Fail
					Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3	
11b	1M	1	1	2412	0.83	0.41	-	-1	0.7	8.0	8.0	Pass
11b	1M	1	6	2437	0.38	-0.65	-	-1	0.7	8.0	8.0	Pass
11b	1M	1	11	2462	-0.06	-0.46	-	-1	0.7	8.0	8.0	Pass
11b	1M	1	12	2467	-1.24	-1.07	-	-1	0.7	8.0	8.0	Pass
11b	1M	1	13	2472	-1.39	-1.48	-	-1	0.7	8.0	8.0	Pass
11g	6M	2	1	2412	-7.65	-7.0	-3.99	2.9		8.0		Pass
11g	6M	2	2	2417	-5.57	-5.46	-2.45	2.9		8.0		Pass
11g	6M	2	6	2437	-4.08	-2.78	0.23	2.9		8.0		Pass
11g	6M	2	9	2452	-6.42	-5.7	-2.69	2.9		8.0		Pass
11g	6M	2	10	2457	-7.23	-6.75	-3.74	2.9		8.0		Pass
11g	6M	2	11	2462	-9.16	-8.46	-5.45	2.9		8.0		Pass
11g	6M	2	12	2467	-10.06	-9.82	-6.81	2.9		8.0		Pass
11g	6M	2	13	2472	-17.27	-16.7	-13.69	2.9		8.0		Pass

6dB and 99% OBW

2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant4	Ant3	Ant4	Ant3		
HE20	MCS0	2	1	2412	Full	19.21	19.05	18.83	18.79	0.5	Pass
HE20	MCS0	2	1	2412	26RU/0	-	-	2.05	2.08	0.5	Pass
HE20	MCS0	2	2	2417	Full	19.3	19.25	17.54	18.75	0.5	Pass
HE20	MCS0	2	6	2437	Full	19.62	20.17	18.57	18.45	0.5	Pass
HE20	MCS0	2	6	2437	26RU/4	-	-	2.62	2.65	0.5	Pass
HE20	MCS0	2	9	2452	Full	19.37	19.27	18.9	18.78	0.5	Pass
HE20	MCS0	2	10	2457	Full	19.18	19.14	18.37	18.55	0.5	Pass
HE20	MCS0	2	11	2462	Full	18.99	18.96	18.82	18.8	0.5	Pass
HE20	MCS0	2	11	2462	26RU/8	-	-	2.00	2.09	0.5	Pass
HE20	MCS0	2	12	2467	Full	19.0	18.98	18.97	18.84	0.5	Pass
HE20	MCS0	2	13	2472	Full	19.0	19.0	18.62	18.89	0.5	Pass

Average Output Power

2.4GHz Band																	
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
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2Tx	1	2412	Full/RU	15.23	15.75	18.51	30		0.7		19.21		36		Pass
HE20	MCS0	2Tx	1	2412	26RU/0	7.12	7.13	10.14	30		0.7		10.84		36		Pass
HE20	MCS0	2Tx	1	2412	52RU/37	9.86	10.48	13.19	30		0.7		13.89		36		Pass
HE20	MCS0	2Tx	1	2412	106RU/53	12.17	12.81	15.51	30		0.7		16.21		36		Pass
HE20	MCS0	2Tx	2	2417	Full/RU	17.88	18.49	21.21	30		0.7		21.91		36		Pass
HE20	MCS0	2Tx	2	2417	26RU/0	11.2	11.4	14.31	30		0.7		15.01		36		Pass
HE20	MCS0	2Tx	2	2417	52RU/37	12.56	13.25	15.93	30		0.7		16.63		36		Pass
HE20	MCS0	2Tx	2	2417	106RU/53	15.41	16.61	19.06	30		0.7		19.76		36		Pass
HE20	MCS0	2Tx	6	2437	Full/RU	19.65	20.59	23.16	30		0.7		23.86		36		Pass
HE20	MCS0	2Tx	6	2437	26RU/4	11.71	12.37	15.06	30		0.7		15.76		36		Pass
HE20	MCS0	2Tx	6	2437	52RU/38	14.86	15.84	18.39	30		0.7		19.09		36		Pass
HE20	MCS0	2Tx	6	2437	106RU/53	17.02	17.95	20.52	30		0.7		21.22		36		Pass
HE20	MCS0	2Tx	9	2452	Full/RU	17.63	18.41	21.05	30		0.7		21.75		36		Pass
HE20	MCS0	2Tx	9	2452	26RU/8	10.92	11.7	14.34	30		0.7		15.04		36		Pass
HE20	MCS0	2Tx	9	2452	52RU/40	13.71	14.38	17.07	30		0.7		17.77		36		Pass
HE20	MCS0	2Tx	9	2452	106RU/54	15.92	16.55	19.26	30		0.7		19.96		36		Pass
HE20	MCS0	2Tx	10	2457	Full/RU	16.61	17.41	20.04	30		0.7		20.74		36		Pass
HE20	MCS0	2Tx	10	2457	26RU/8	7.71	8.69	11.24	30		0.7		11.94		36		Pass
HE20	MCS0	2Tx	10	2457	52RU/40	10.78	11.89	14.38	30		0.7		15.08		36		Pass
HE20	MCS0	2Tx	10	2457	106RU/54	13.65	14.81	17.28	30		0.7		17.98		36		Pass
HE20	MCS0	2Tx	11	2462	Full/RU	13.95	14.69	17.35	30		0.7		18.05		36		Pass
HE20	MCS0	2Tx	11	2462	26RU/8	6.17	5.97	9.08	30		0.7		9.78		36		Pass
HE20	MCS0	2Tx	11	2462	52RU/40	9.17	9.31	12.25	30		0.7		12.95		36		Pass
HE20	MCS0	2Tx	11	2462	106RU/54	12.29	12.47	15.39	30		0.7		16.09		36		Pass

2.4GHz Band																	
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
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2Tx	12	2467	Full/RU	13.4	13.68	16.55	30		0.7		17.25		36		Pass
HE20	MCS0	2Tx	12	2467	26RU/8	6	5.69	8.86	30		0.7		9.56		36		Pass
HE20	MCS0	2Tx	12	2467	52RU/40	8.46	8.48	11.48	30		0.7		12.18		36		Pass
HE20	MCS0	2Tx	12	2467	106RU/54	11.02	11.25	14.15	30		0.7		14.85		36		Pass
HE20	MCS0	2Tx	13	2472	Full/RU	9.04	9.31	12.19	30		0.7		12.89		36		Pass
HE20	MCS0	2Tx	13	2472	26RU/8	-0.89	-1.37	1.89	30		0.7		2.59		36		Pass
HE20	MCS0	2Tx	13	2472	52RU/40	1.88	1.84	4.87	30		0.7		5.57		36		Pass
HE20	MCS0	2Tx	13	2472	106RU/54	4	4.2	7.11	30		0.7		7.81		36		Pass

Power Spectral Density

2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass /Fail
						Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	1	2412	Full	-10.08	-9.61	-6.6	2.9		8.0		Pass
HE20	MCS0	2	1	2412	26/0	-10.24	-10.73	-7.23	2.9		8.0		Pass
HE20	MCS0	2	1	2412	52/37	-10.11	-9.87	-6.86	2.9		8.0		Pass
HE20	MCS0	2	1	2412	106/53	-11.27	-10.39	-7.38	2.9		8.0		Pass
HE20	MCS0	2	2	2417	Full	-7.33	-6.75	-3.74	2.9		8.0		Pass
HE20	MCS0	2	2	2417	26/0	-7.75	-6.81	-3.8	2.9		8.0		Pass
HE20	MCS0	2	2	2417	52/37	-7.47	-7.0	-3.99	2.9		8.0		Pass
HE20	MCS0	2	2	2417	106/53	-7.54	-6.76	-3.75	2.9		8.0		Pass
HE20	MCS0	2	6	2437	Full	-5.55	-4.18	-1.17	2.9		8.0		Pass
HE20	MCS0	2	6	2437	26/4	-5.79	-4.93	-1.92	2.9		8.0		Pass
HE20	MCS0	2	6	2437	52/38	-5.72	-4.95	-1.94	2.9		8.0		Pass
HE20	MCS0	2	6	2437	106/53	-5.61	-5.03	-2.02	2.9		8.0		Pass
HE20	MCS0	2	9	2452	Full	-6.71	-4.34	-1.33	2.9		8.0		Pass
HE20	MCS0	2	9	2452	26/8	-6.81	-6.5	-3.49	2.9		8.0		Pass
HE20	MCS0	2	9	2452	52/40	-7.27	-5.63	-2.62	2.9		8.0		Pass
HE20	MCS0	2	9	2452	106/54	-7.41	-5.33	-2.32	2.9		8.0		Pass
HE20	MCS0	2	10	2457	Full	-8.3	-7.35	-4.34	2.9		8.0		Pass
HE20	MCS0	2	10	2457	26/8	-8.87	-8.62	-5.61	2.9		8.0		Pass
HE20	MCS0	2	10	2457	52/40	-9.36	-8.1	-5.09	2.9		8.0		Pass
HE20	MCS0	2	10	2457	106/54	-9.09	-9.01	-6.0	2.9		8.0		Pass
HE20	MCS0	2	11	2462	Full	-10.63	-10.4	-7.39	2.9		8.0		Pass
HE20	MCS0	2	11	2462	26/8	-11.22	-10.92	-7.91	2.9		8.0		Pass
HE20	MCS0	2	11	2462	52/40	-11.08	-10.86	-7.85	2.9		8.0		Pass
HE20	MCS0	2	11	2462	106/54	-10.64	-10.42	-7.41	2.9		8.0		Pass

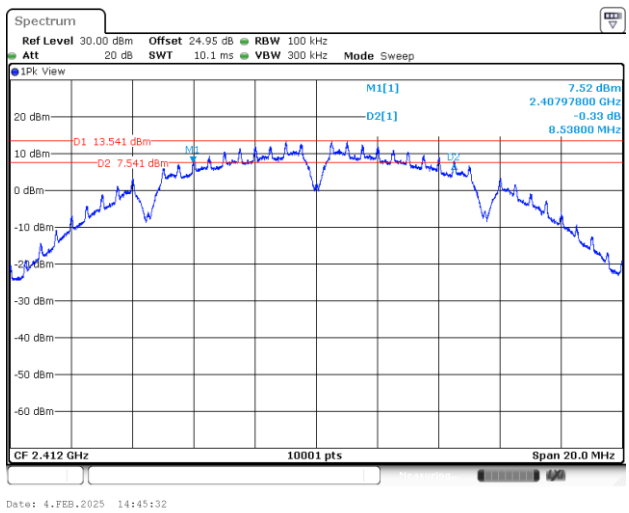
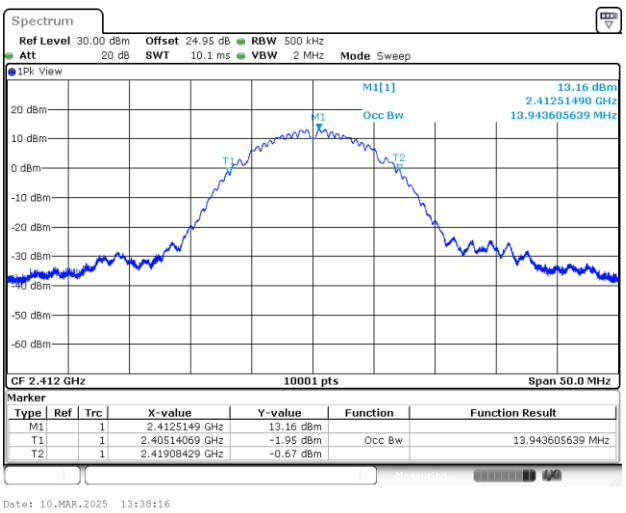
2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass /Fail
						Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	12	2467	Full	-11.08	-11.3	-8.07	2.9		8.0		Pass
HE20	MCS0	2	12	2467	26/8	-11.58	-12.09	-8.57	2.9		8.0		Pass
HE20	MCS0	2	12	2467	52/40	-12.18	-11.71	-8.7	2.9		8.0		Pass
HE20	MCS0	2	12	2467	106/54	-11.87	-11.73	-8.72	2.9		8.0		Pass
HE20	MCS0	2	13	2472	Full	-16.82	-15.15	-12.14	2.9		8.0		Pass
HE20	MCS0	2	13	2472	26/8	-18.56	-18.36	-15.35	2.9		8.0		Pass
HE20	MCS0	2	13	2472	52/40	-17.71	-17.89	-14.7	2.9		8.0		Pass
HE20	MCS0	2	13	2472	106/54	-18.16	-17.5	-14.49	2.9		8.0		Pass

6dB and 99% Occupied Bandwidth

<SISO Mode>

<Ant. 4>

<802.11b>

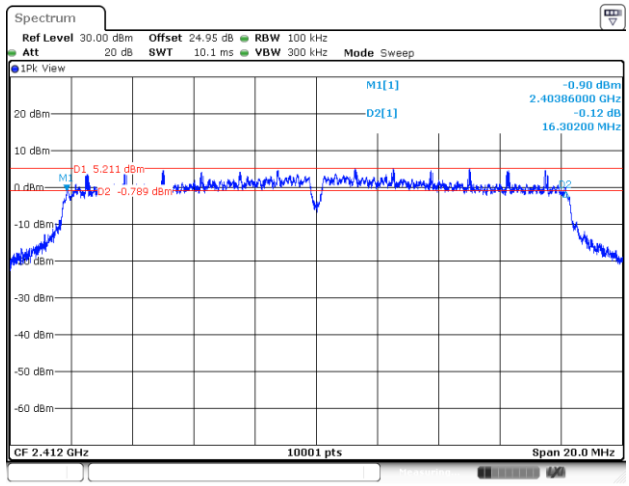
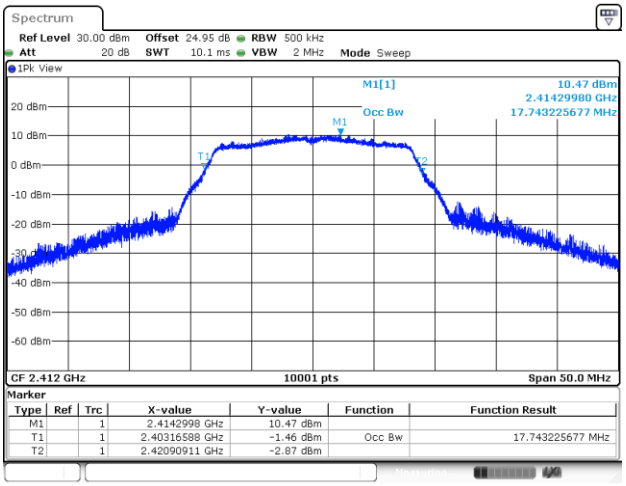
6dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<MIMO Mode>

MIMO <Ant. 4+3>

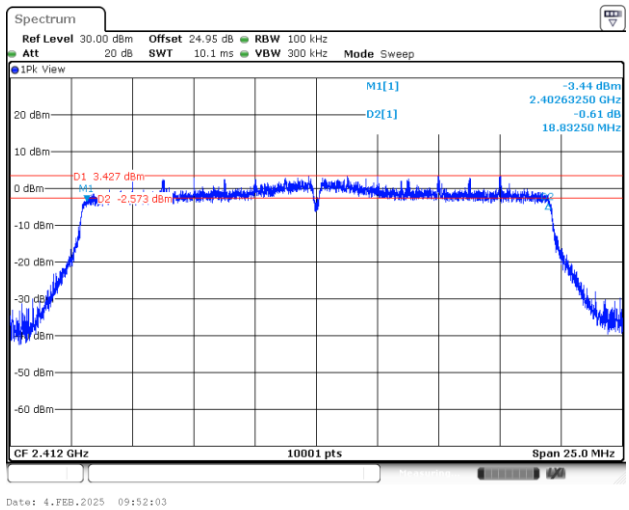
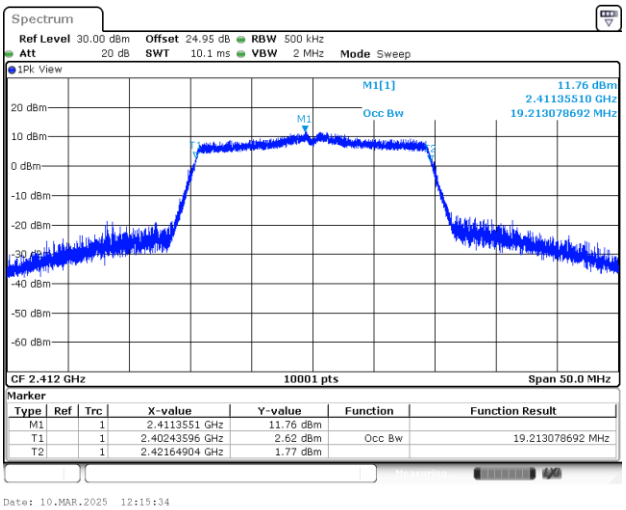
<802.11g>

6dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

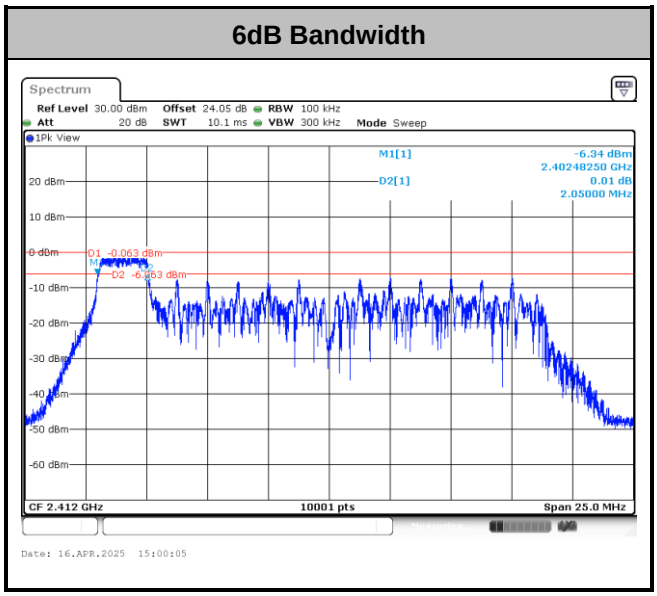
<802.11ax HE20>

Full RU

6dB Bandwidth	99% Occupied Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

26RU

6dB Bandwidth


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

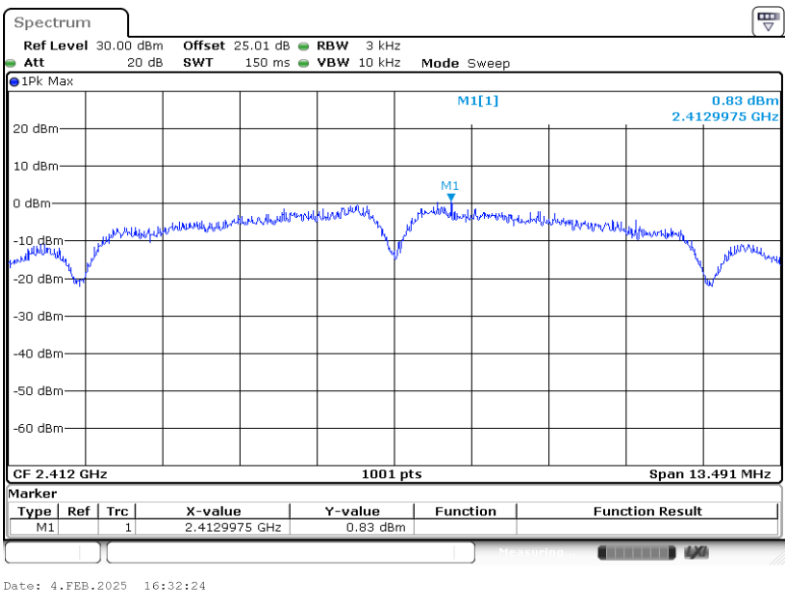
Power Spectral Density(dBm/3kHz)

<SISO Mode>

<Ant. 4>

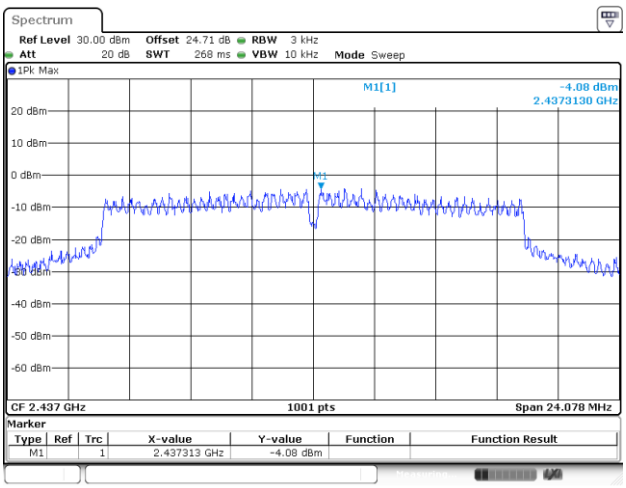
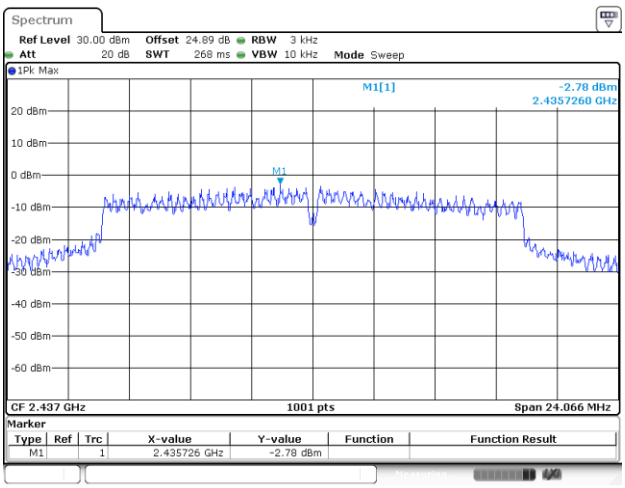
<802.11b>

Worst Case Power Density (dBm/3kHz)

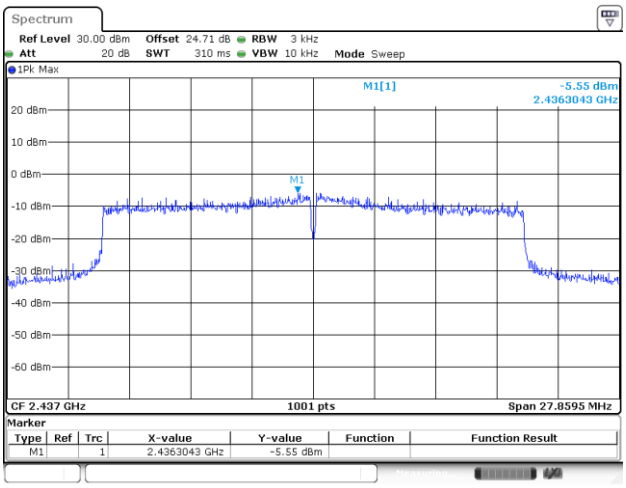
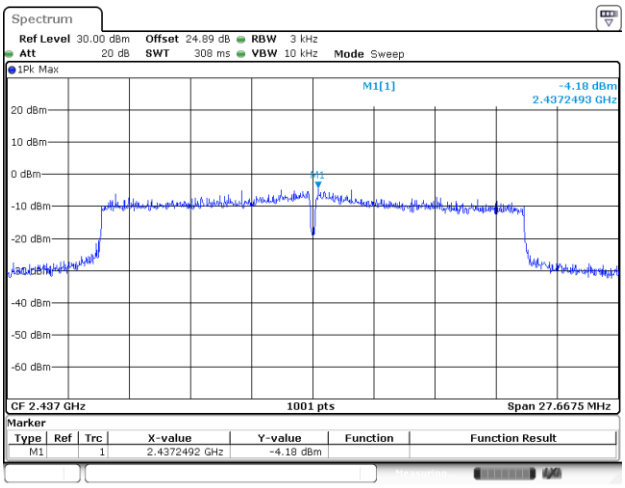


<MIMO Mode>

<802.11g>

Maximum Power Density Plot (dBm/3kHz)	
MIMO Ant 4	**MIMO Ant 3**
	

<802.11ax HE20>

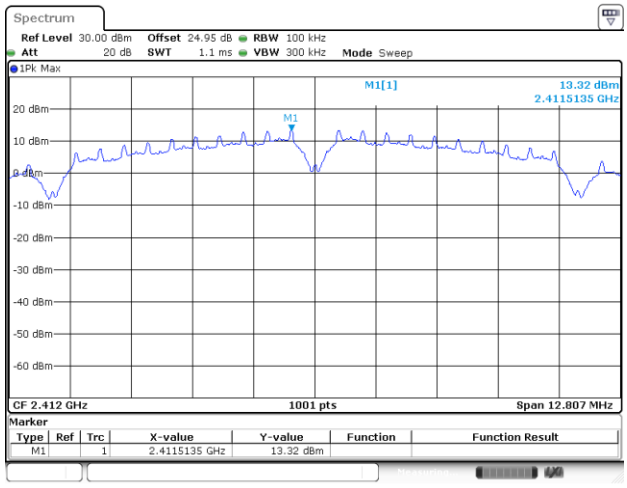
Maximum Power Density Plot (dBm/3kHz)	
MIMO Ant 4	**MIMO Ant 3**
	

Band Edges and Spurious Emission

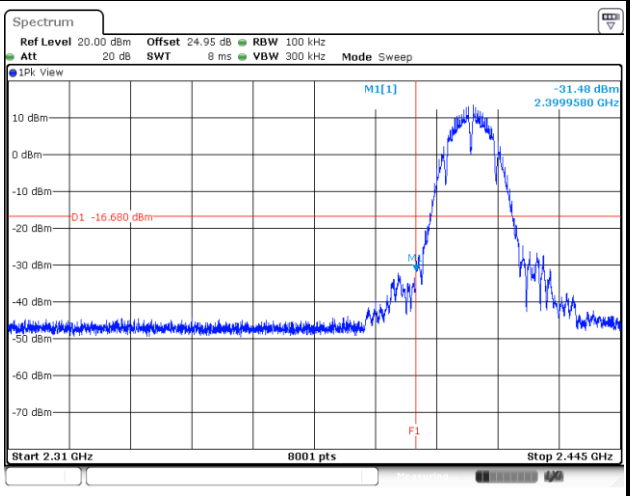
Number of TX = 1, Ant. 4 (Measured)

Test Mode :	802.11b	Test Channel :	01

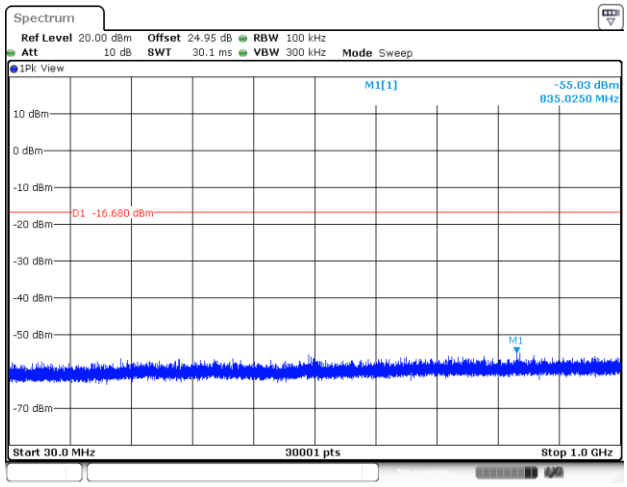
100kHz PSD reference Level



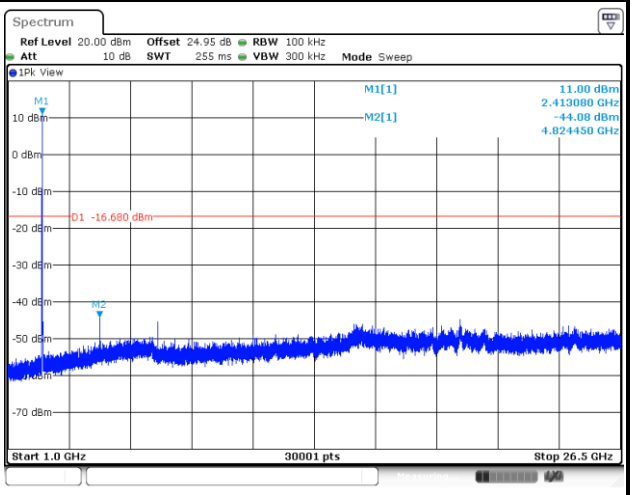
Channel 01 Plot



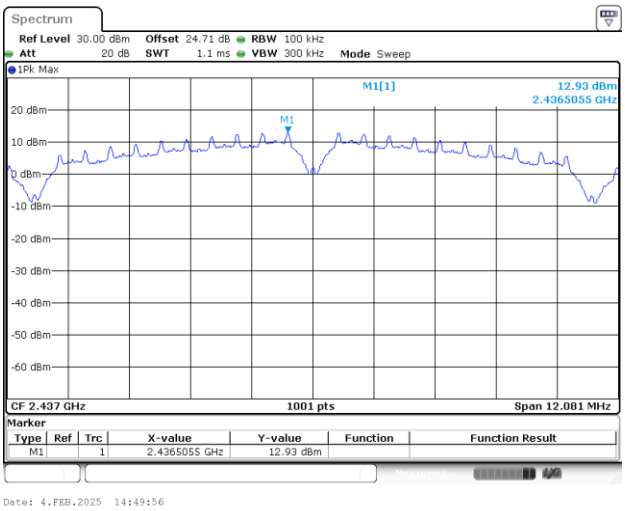
Spurious Emission 30MHz~1GHz

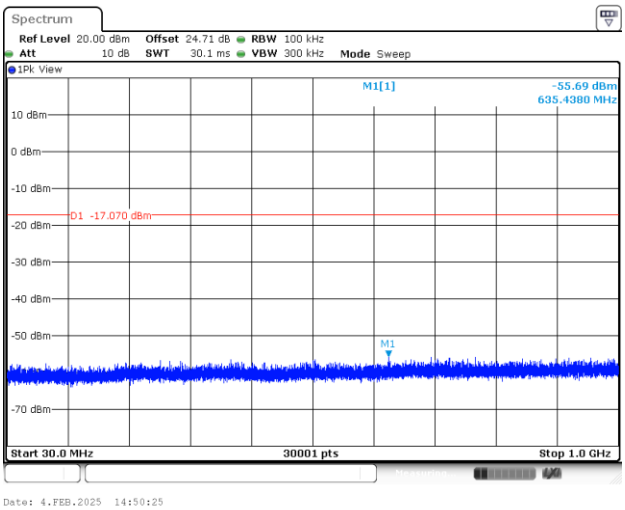
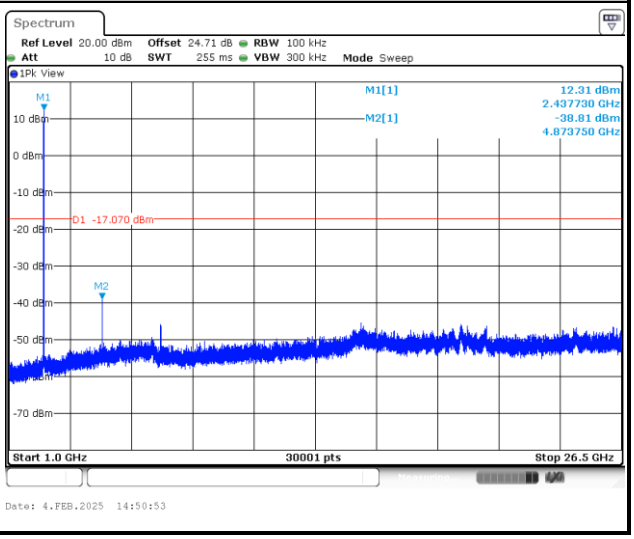


Spurious Emission 1GHz~26.5GHz

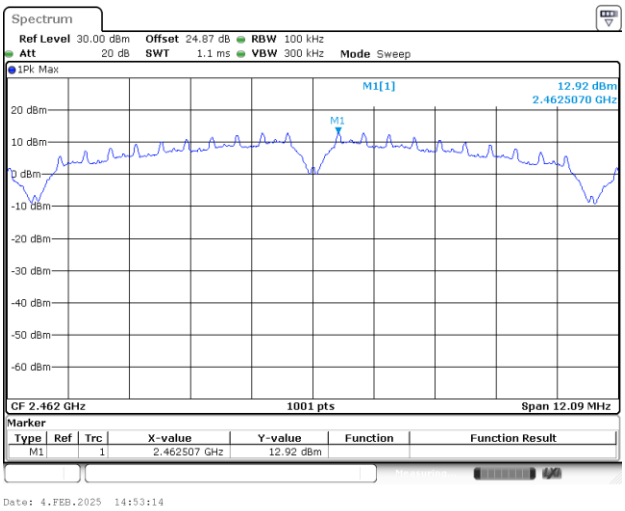
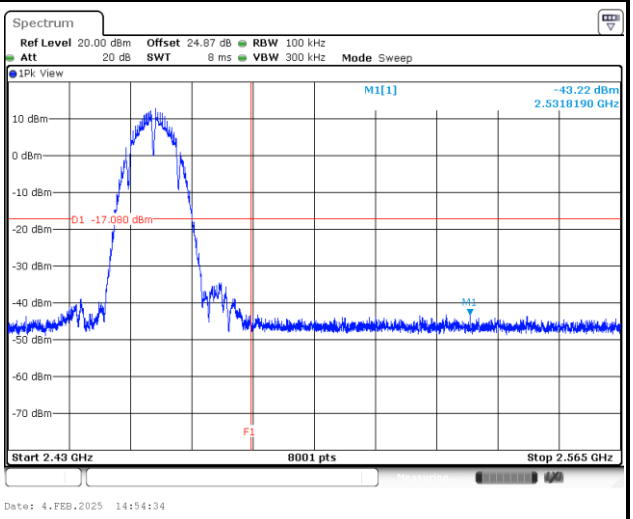
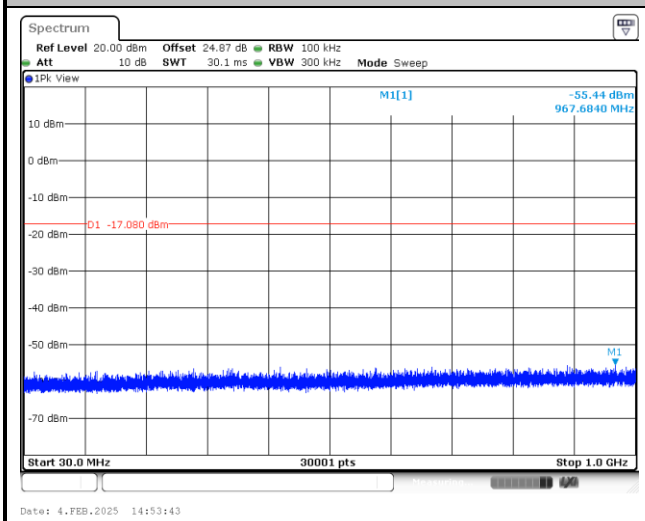
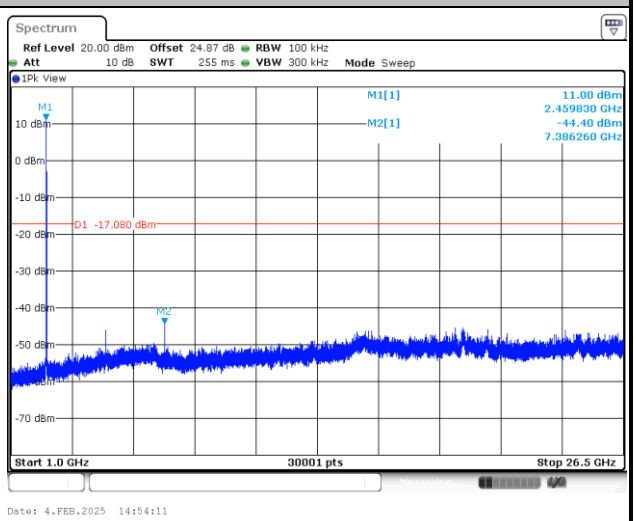


Test Mode :	802.11b	Test Channel :	06

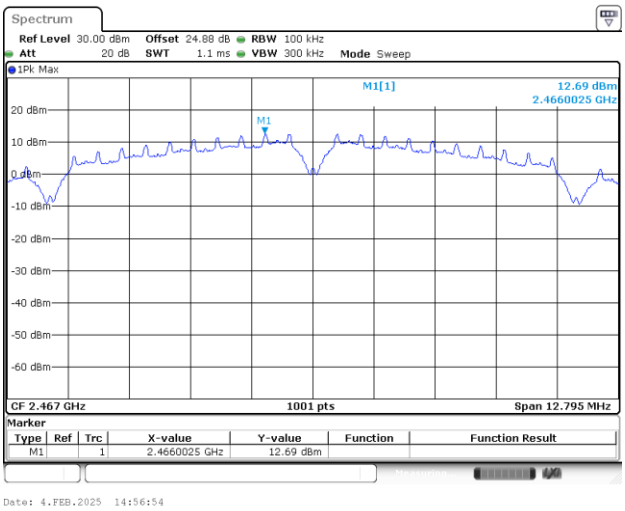
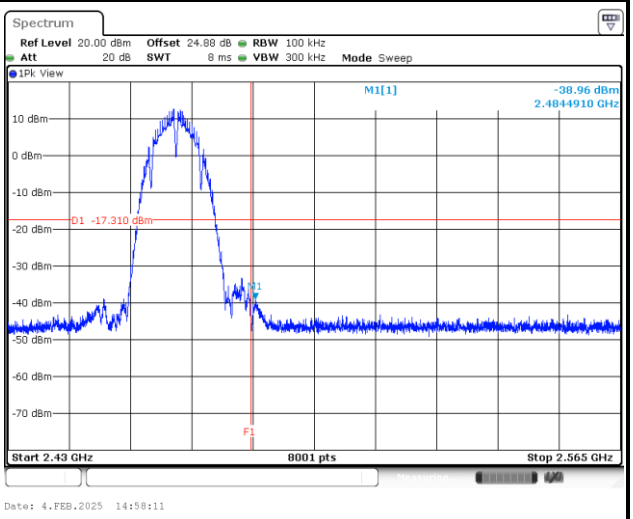
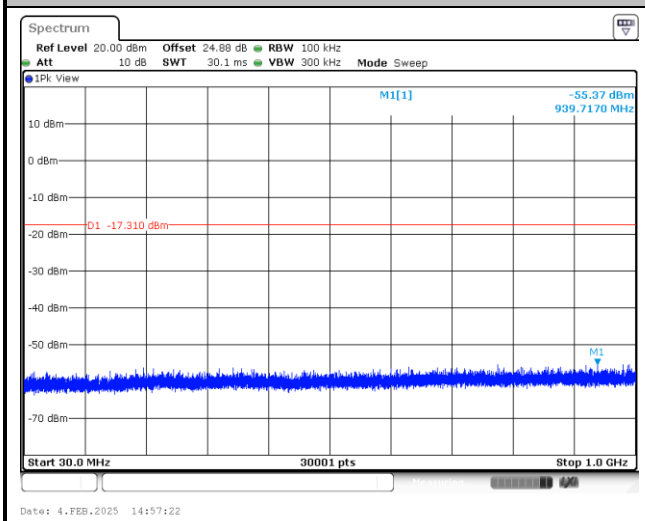
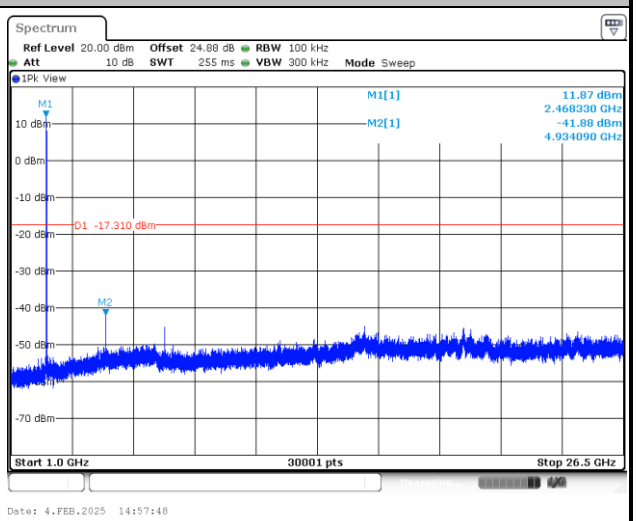
100kHz PSD reference Level	Channel 06 Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

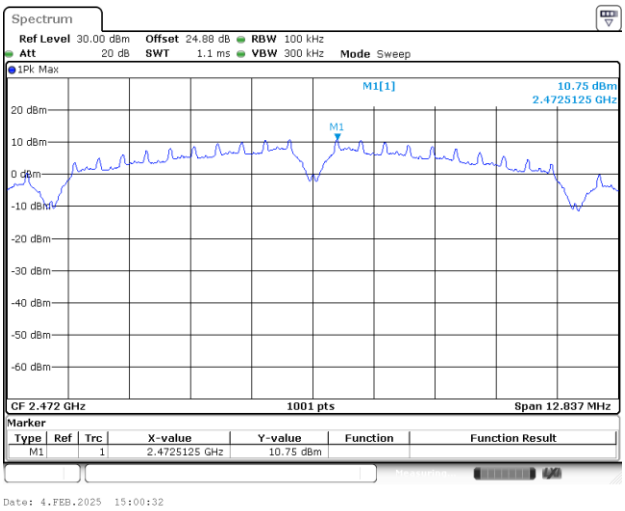
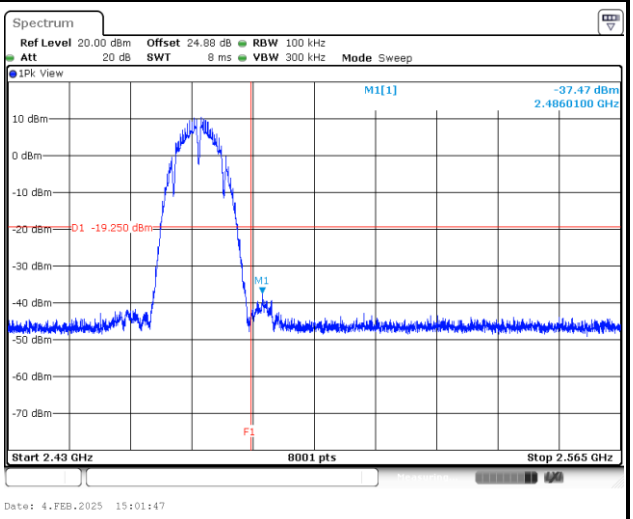
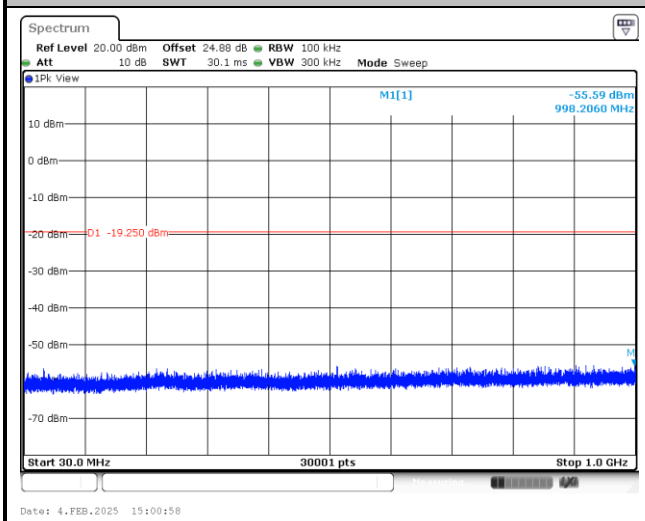
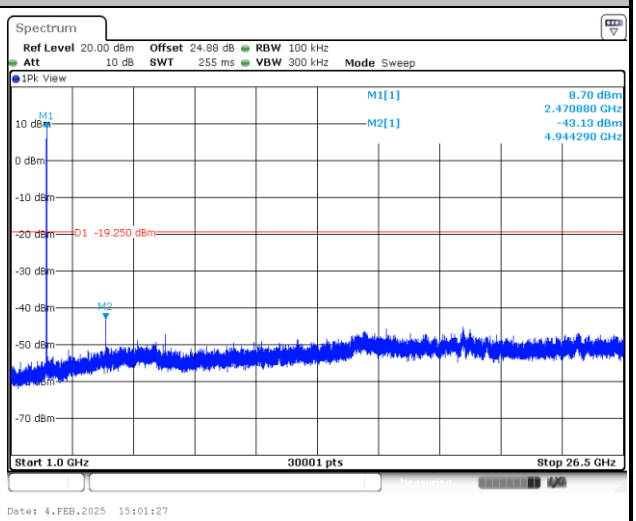
Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level	Channel 11 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11b	Test Channel :	12

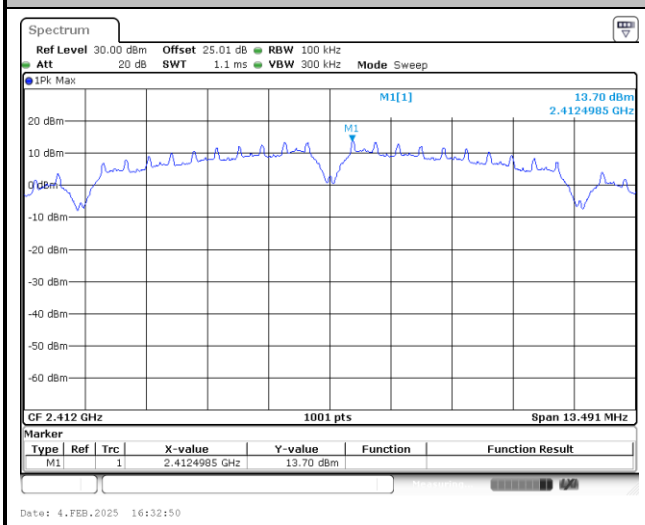
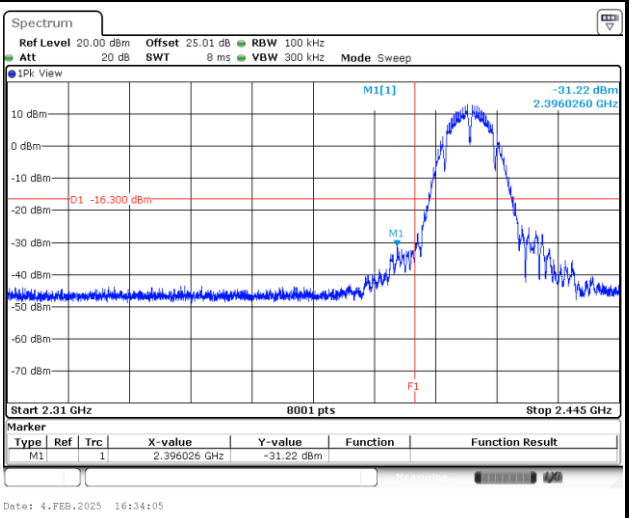
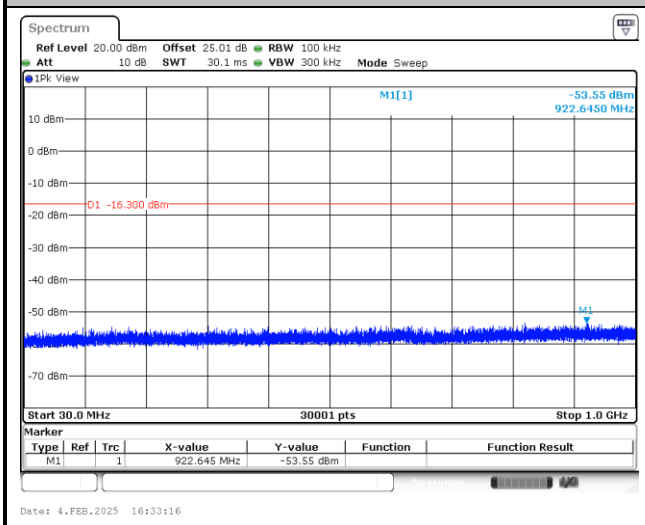
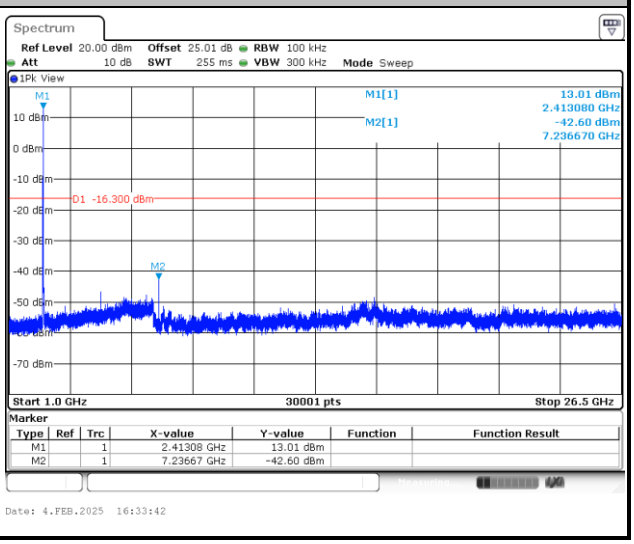
100kHz PSD reference Level	Channel 12 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11b	Test Channel :	13

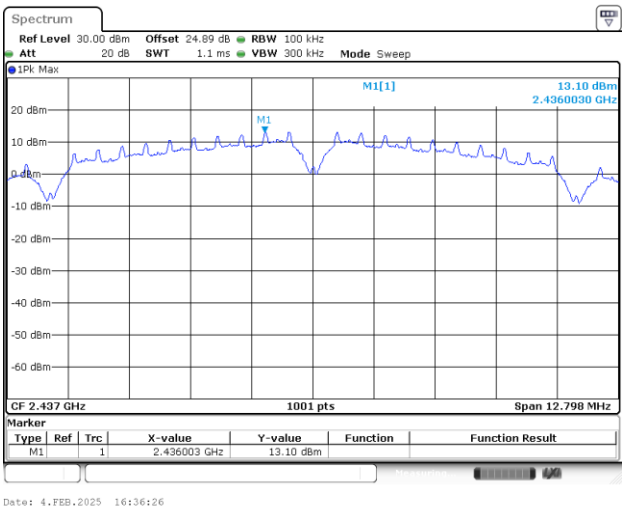
100kHz PSD reference Level	Channel 13 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

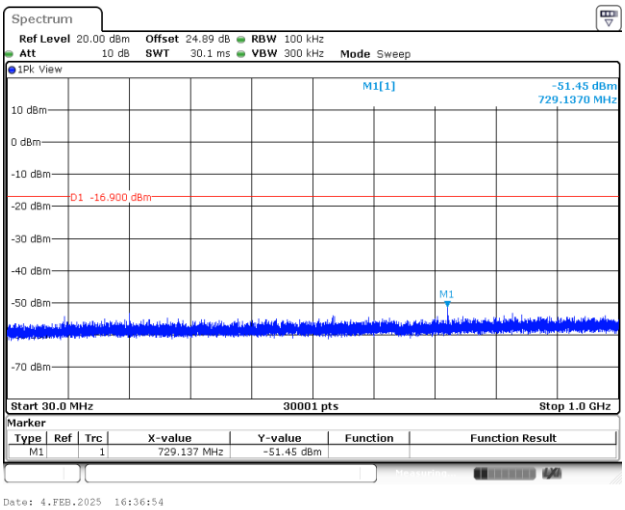
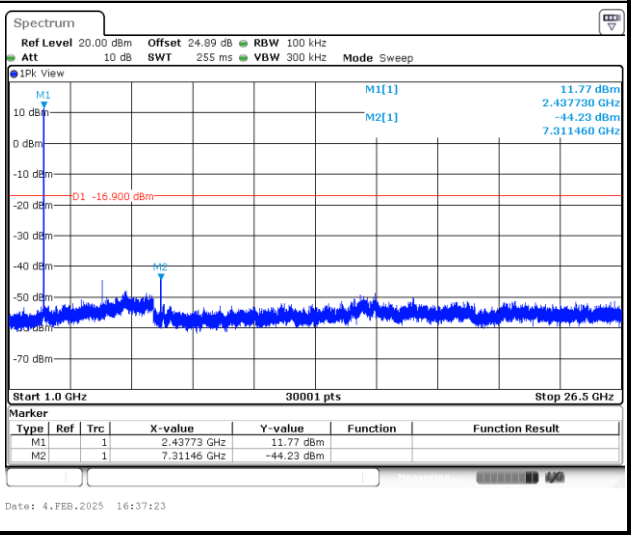
Number of TX = 1, Ant. 3 (Measured)

Test Mode :	802.11b	Test Channel :	01

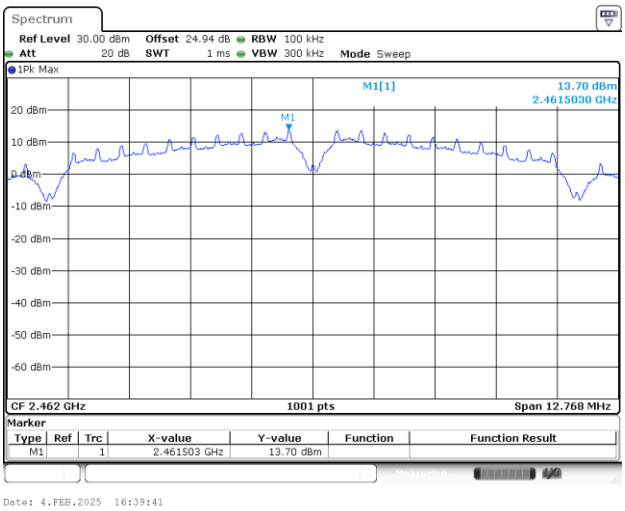
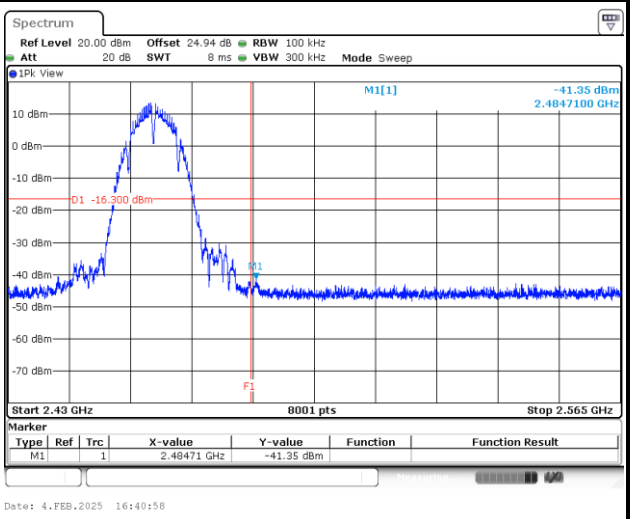
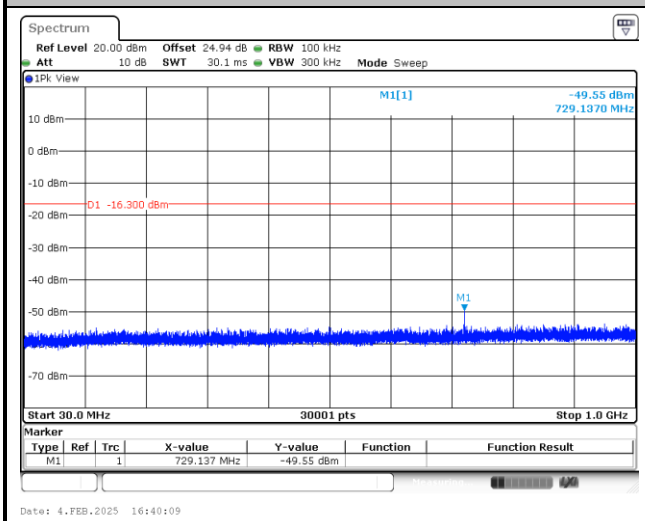
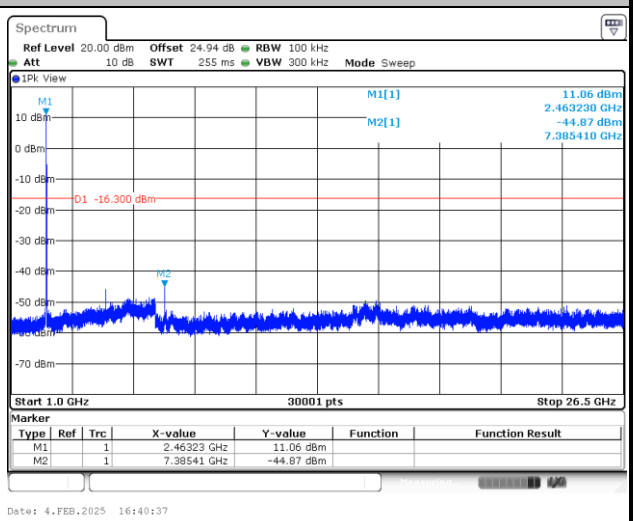
100kHz PSD reference Level	Channel 01 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11b	Test Channel :	06

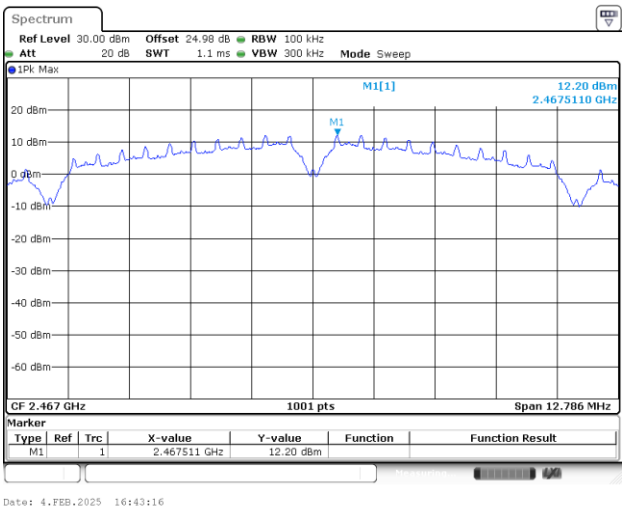
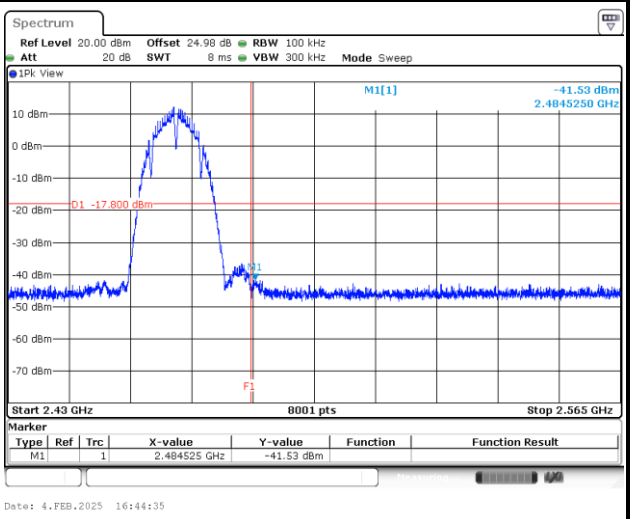
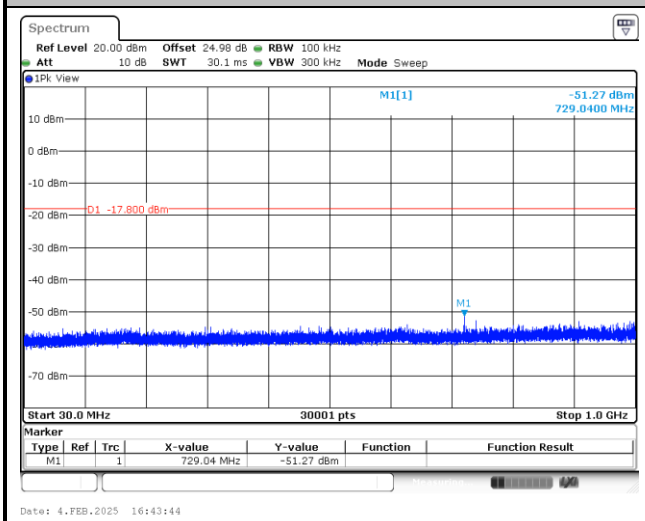
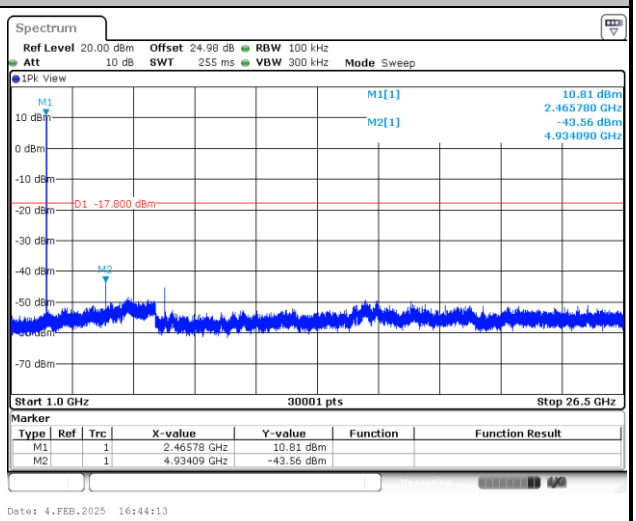
100kHz PSD reference Level	Channel 06 Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

Test Mode :	802.11b	Test Channel :	11

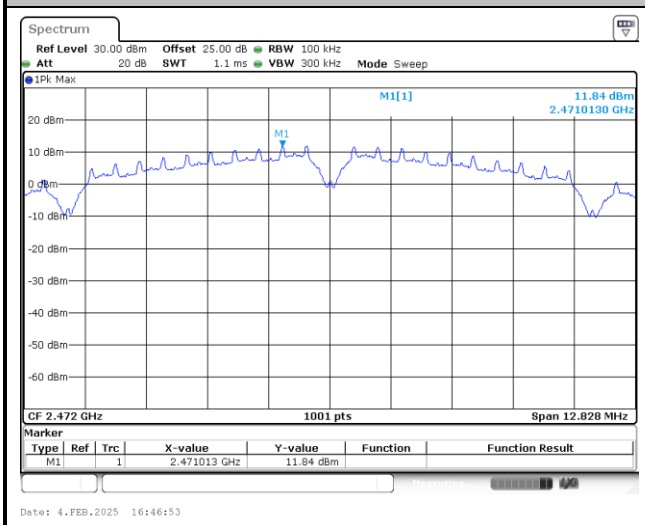
100kHz PSD reference Level	Channel 11 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11b	Test Channel :	12

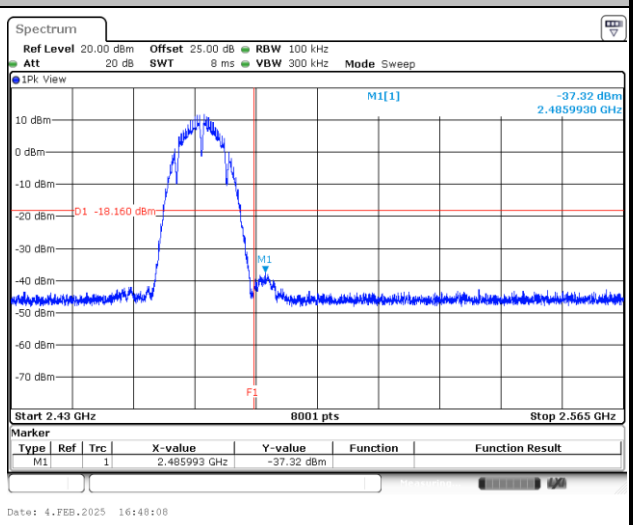
100kHz PSD reference Level	Channel 12 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11b	Test Channel :	13

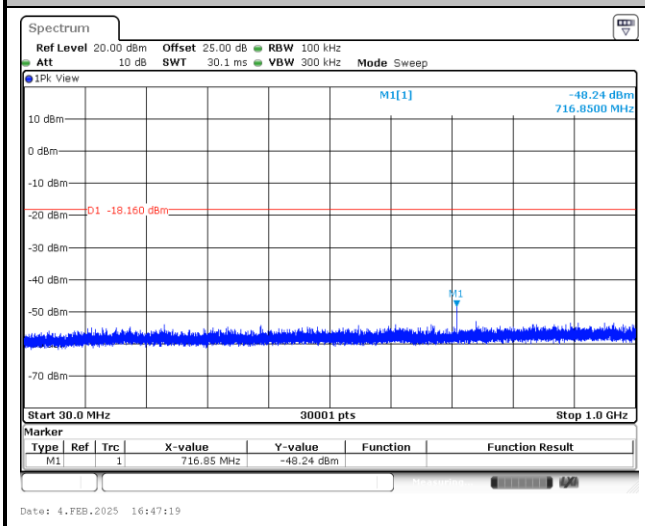
100kHz PSD reference Level



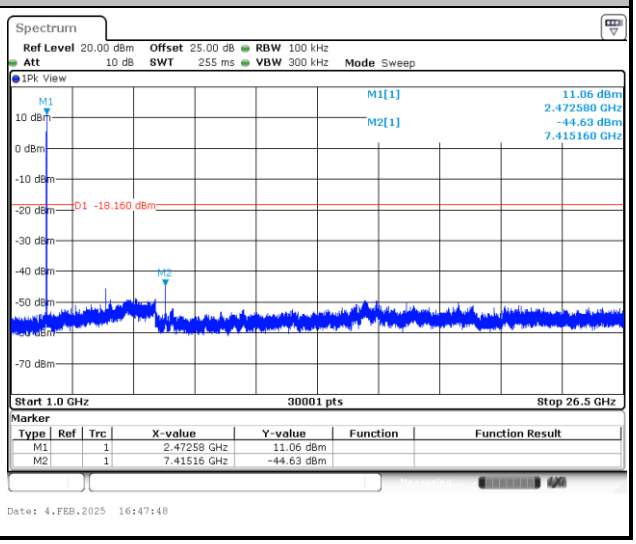
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

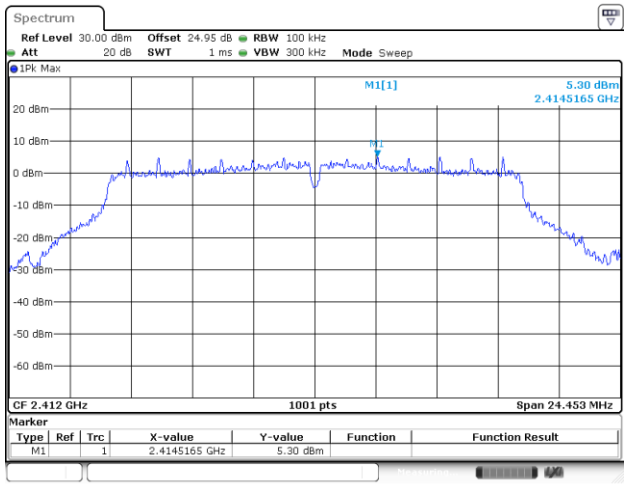


Band Edges and Spurious Emission

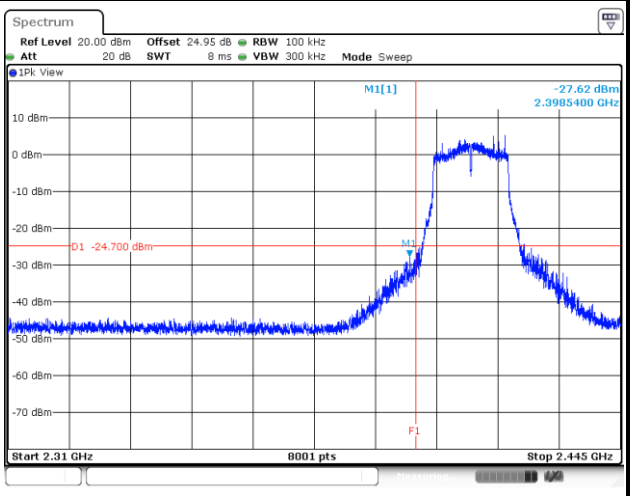
Number of TX = 2, Ant. 4 (Measured)

Test Mode :	802.11g	Test Channel :	01

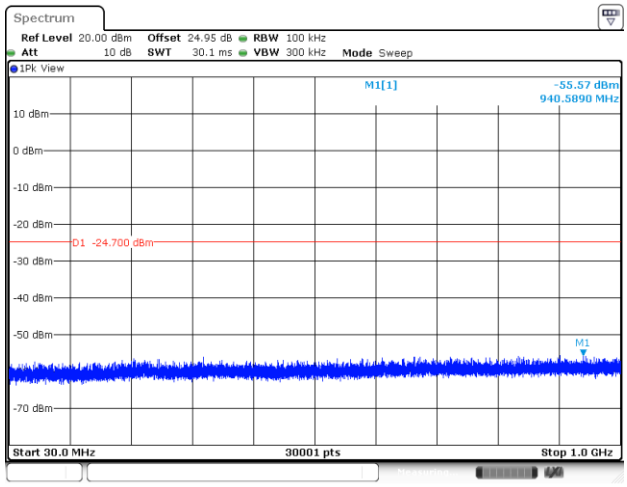
100kHz PSD reference Level



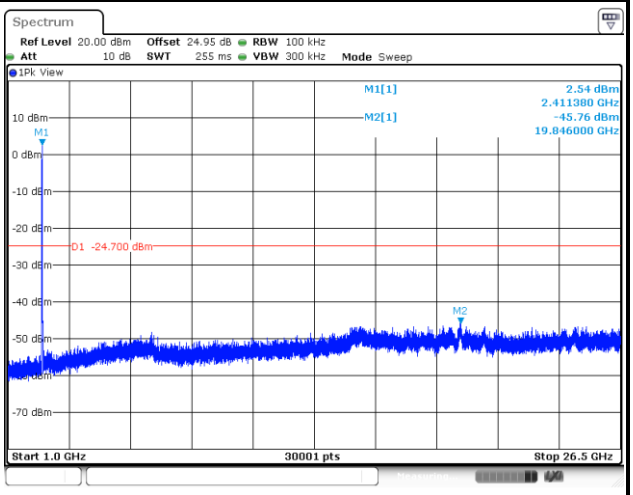
Channel 01 Plot



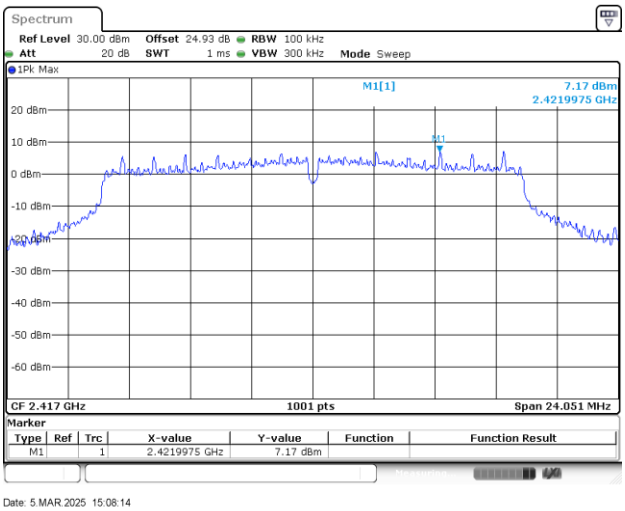
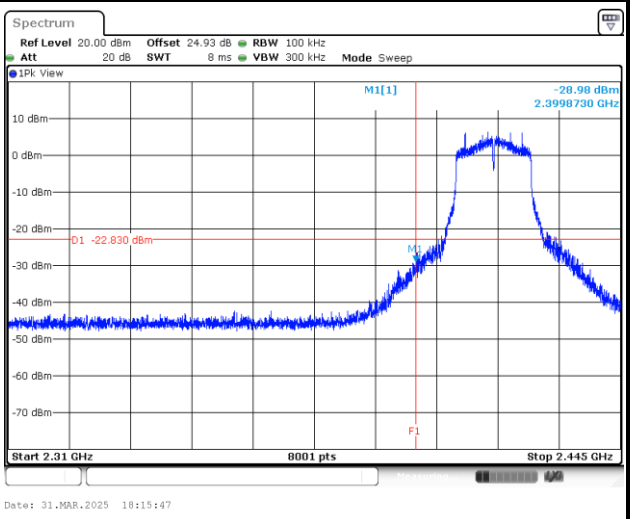
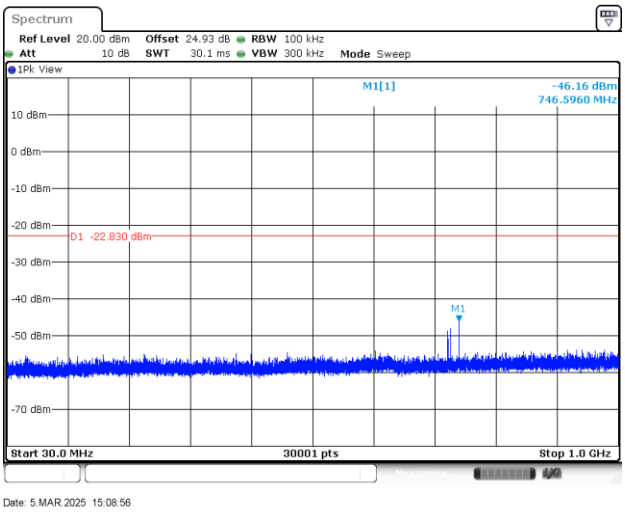
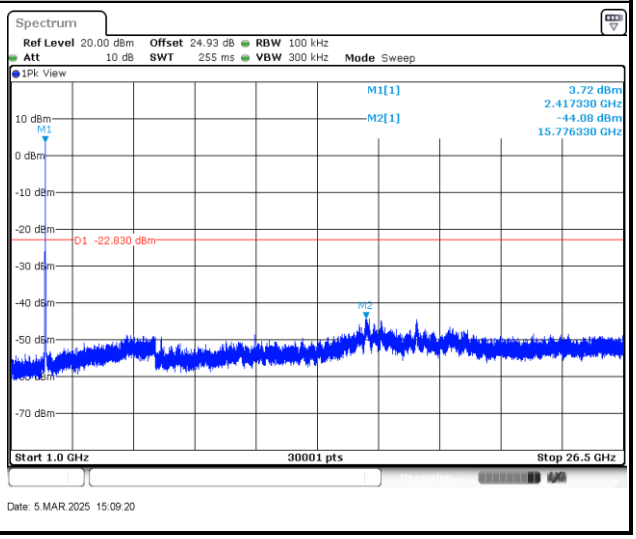
Spurious Emission 30MHz~1GHz



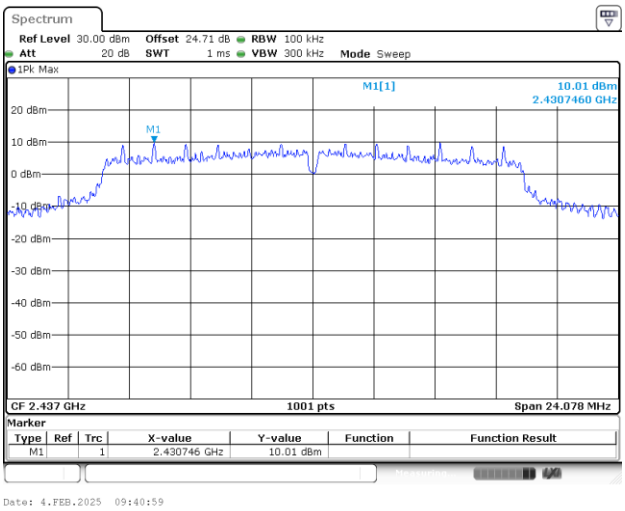
Spurious Emission 1GHz~26.5GHz

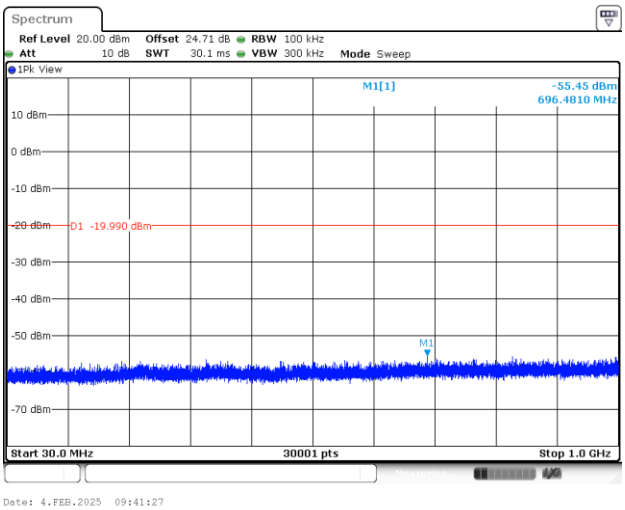
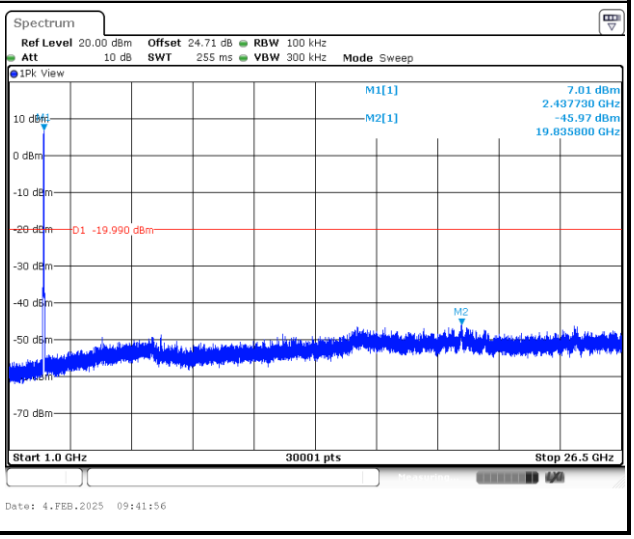


Test Mode :	802.11g	Test Channel :	02

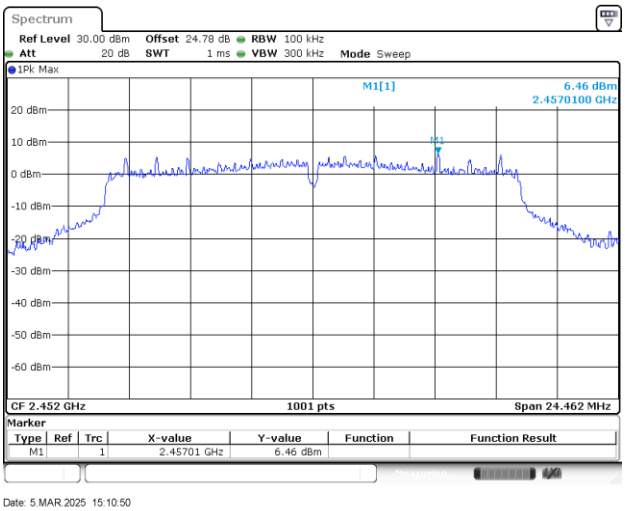
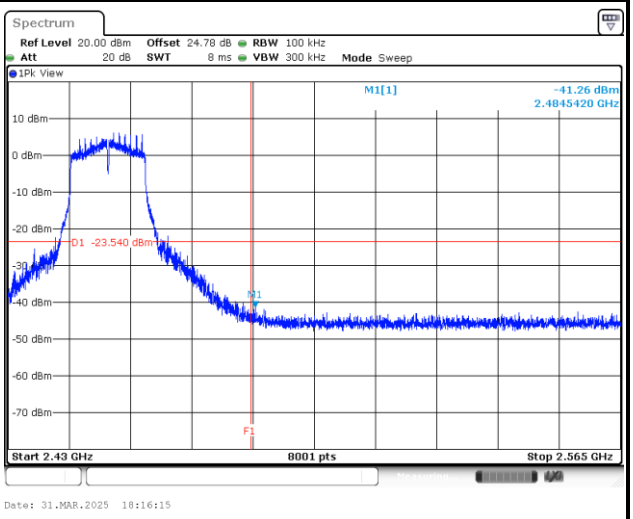
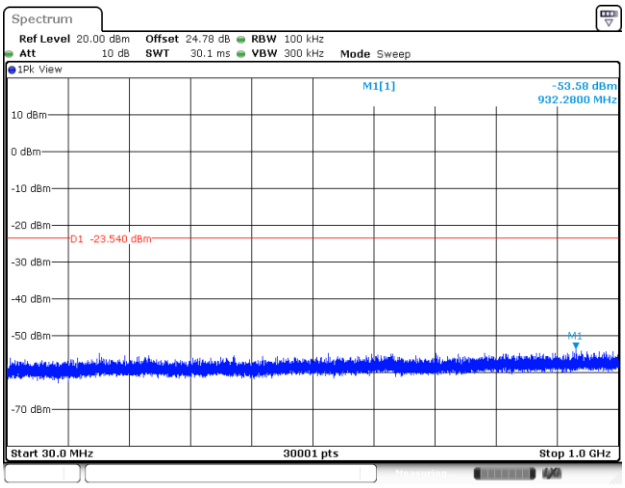
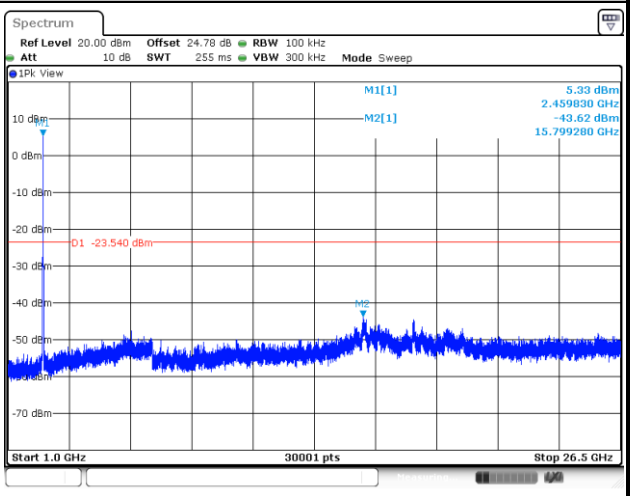
100kHz PSD reference Level	Channel 02 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11g	Test Channel :	06

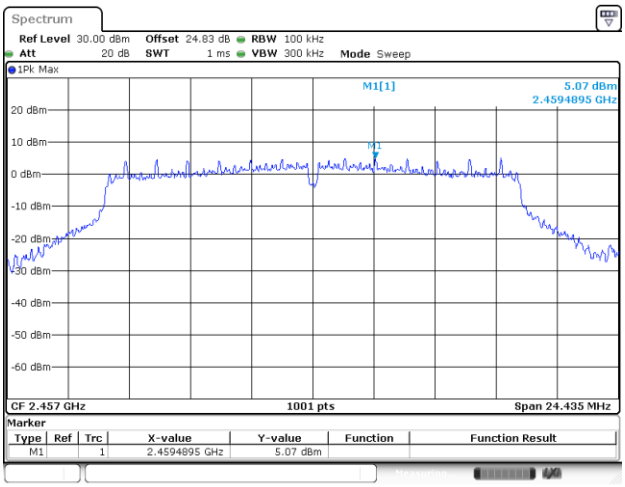
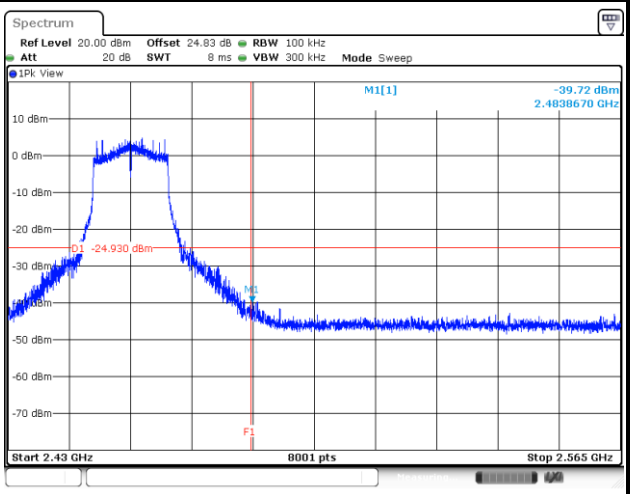
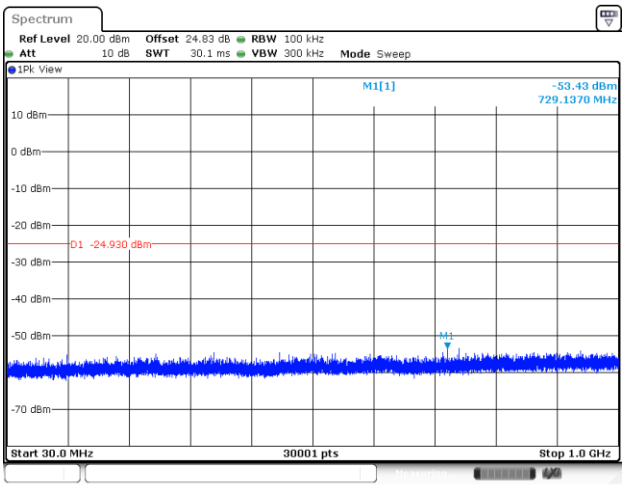
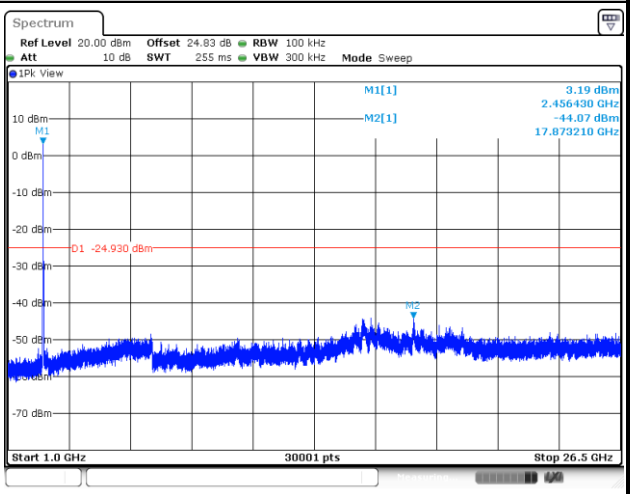
100kHz PSD reference Level	Channel 06 Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

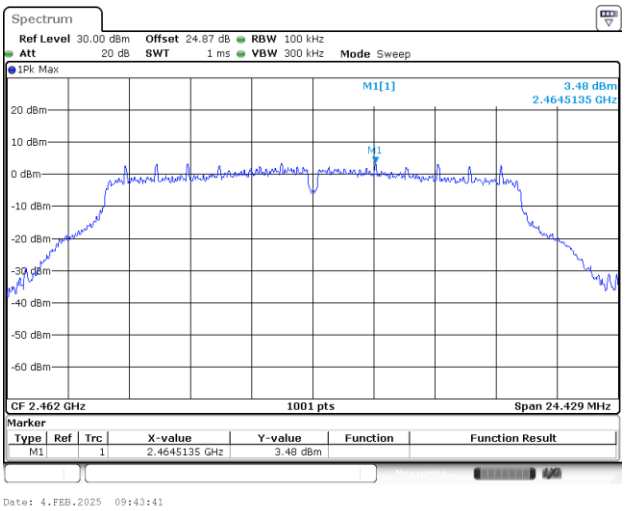
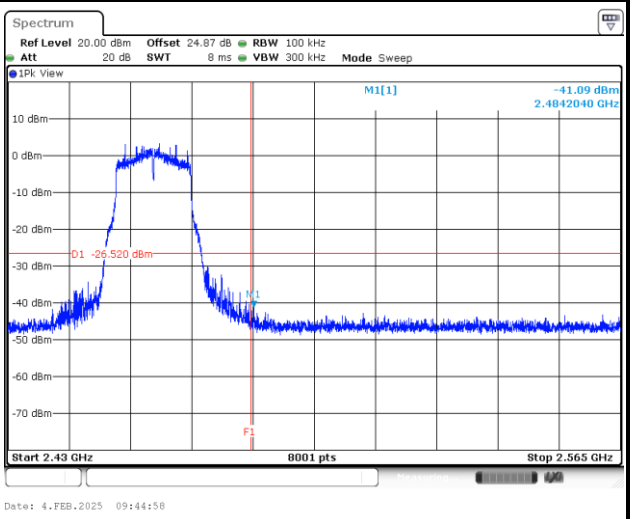
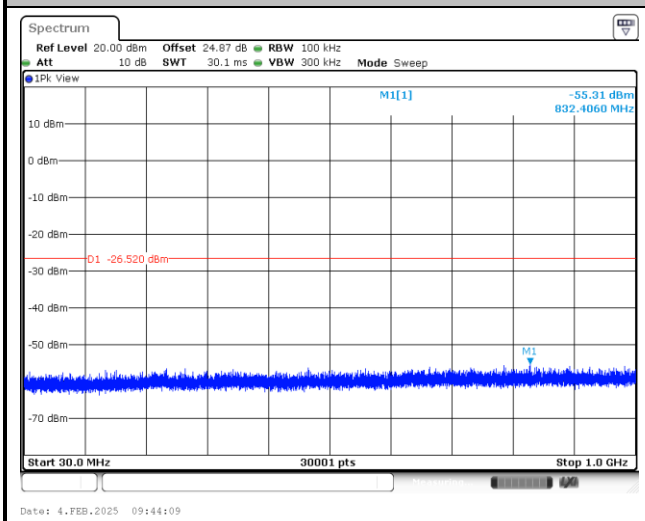
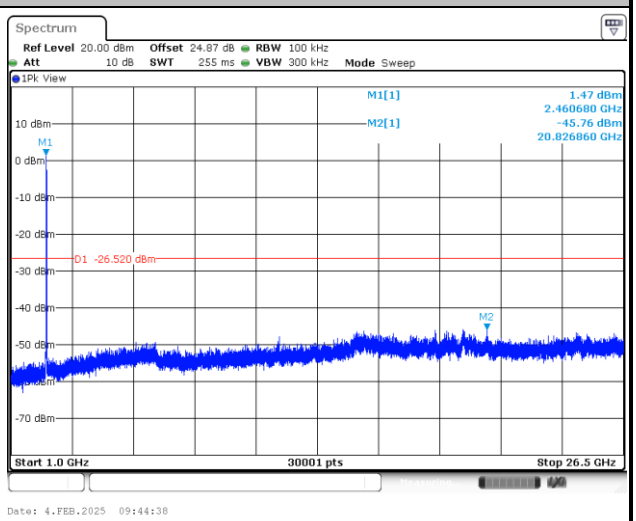
Test Mode :	802.11g	Test Channel :	09

100kHz PSD reference Level	Channel 09 Plot
	
Date: 5.MAR.2025 15:10:50	Date: 31.MAR.2025 18:16:15
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	
Date: 5.MAR.2025 15:11:31	Date: 5.MAR.2025 15:11:55

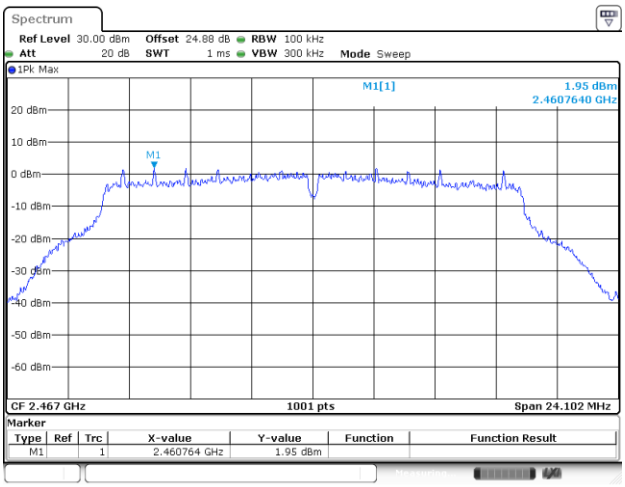
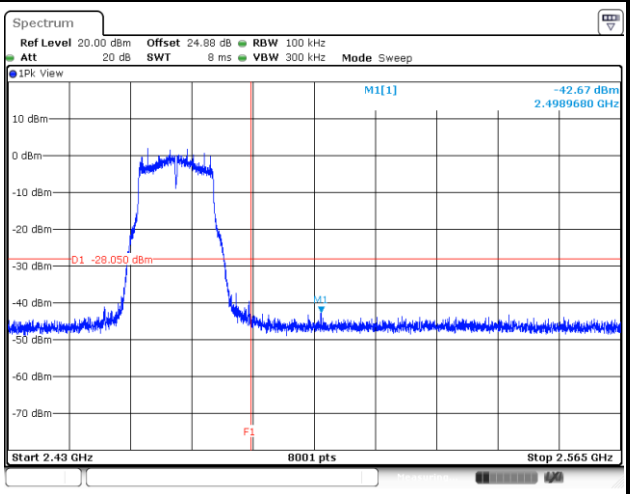
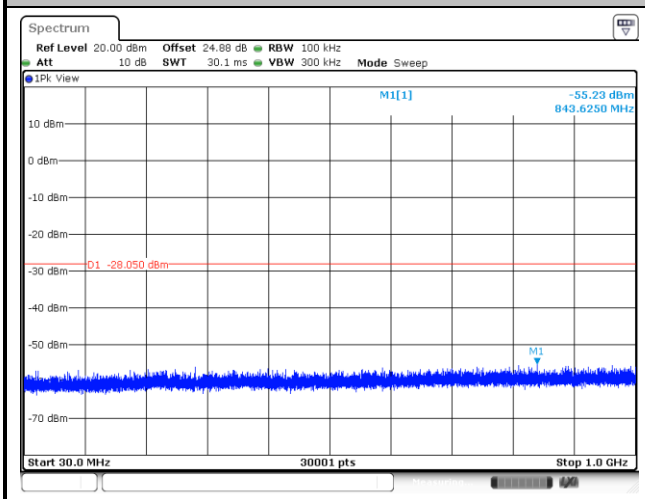
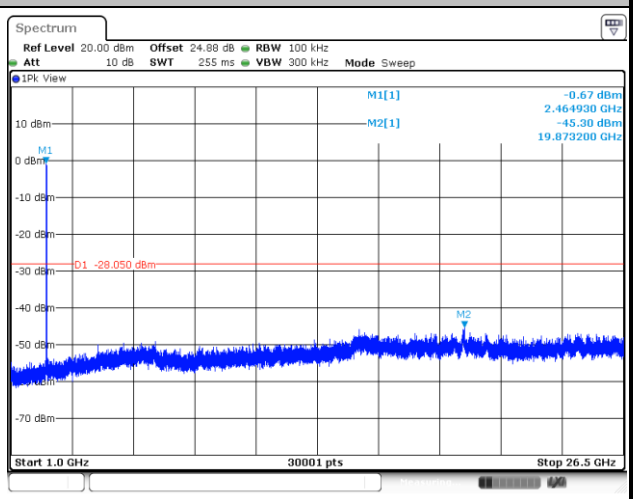
Test Mode :	802.11g	Test Channel :	10

100kHz PSD reference Level	Channel 10 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

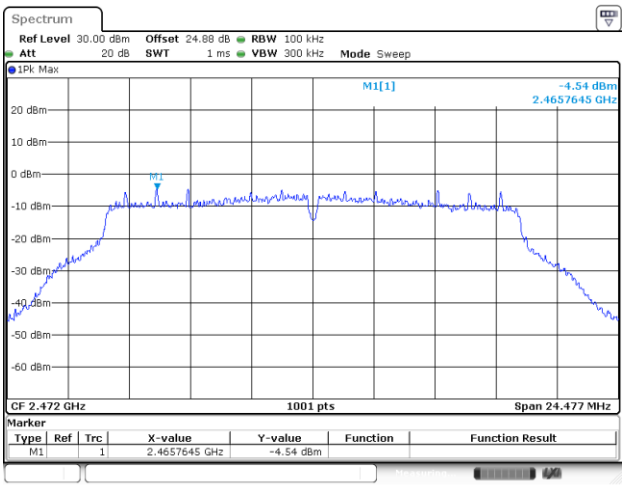
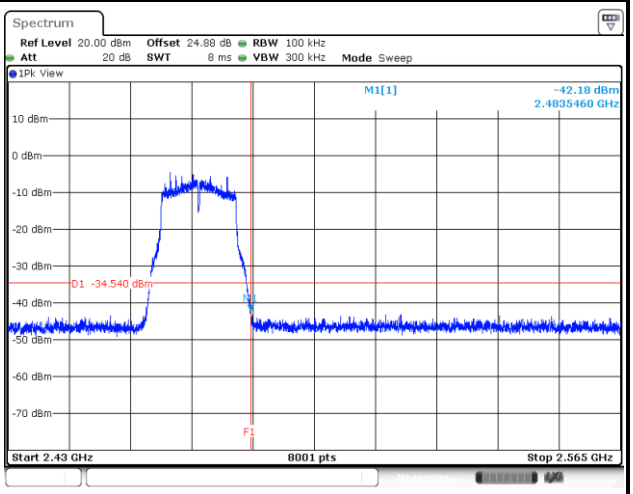
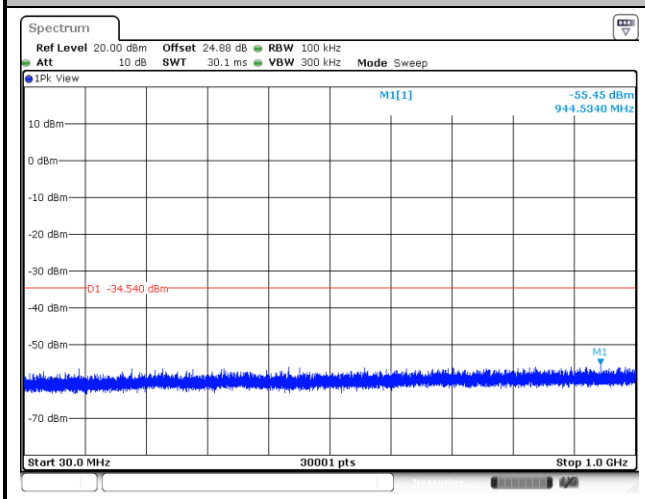
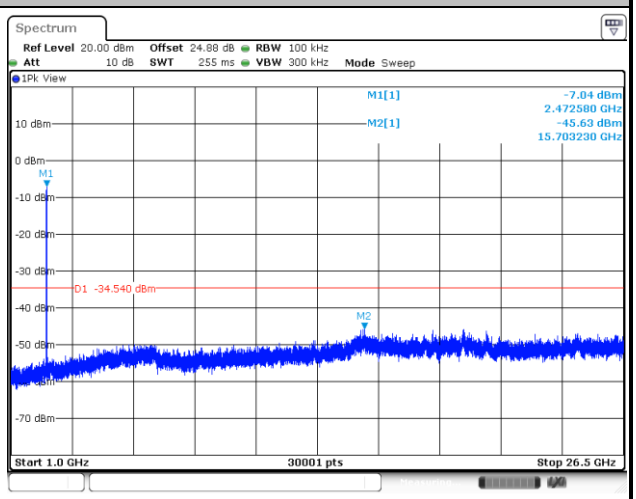
Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level	Channel 11 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

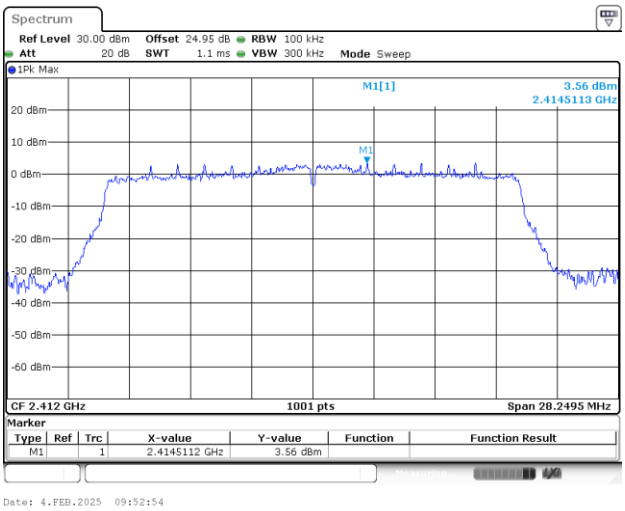
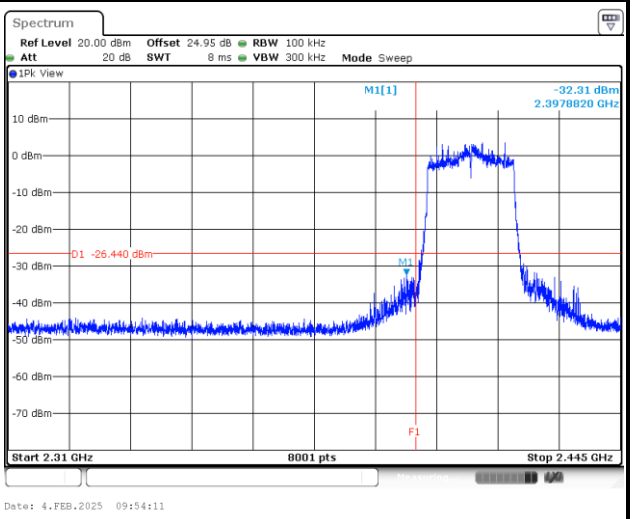
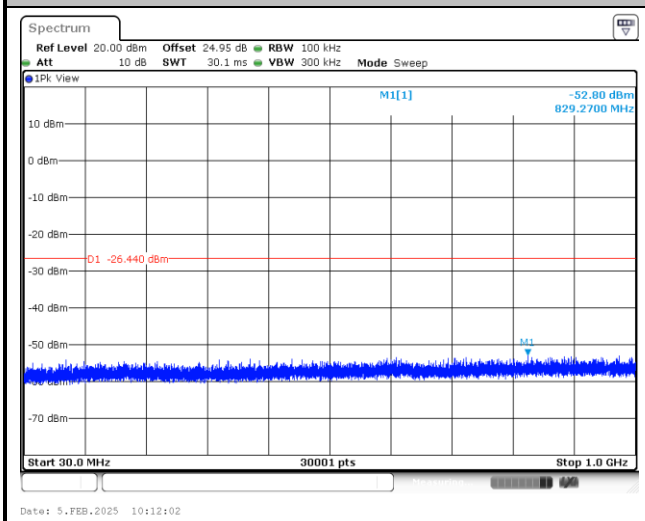
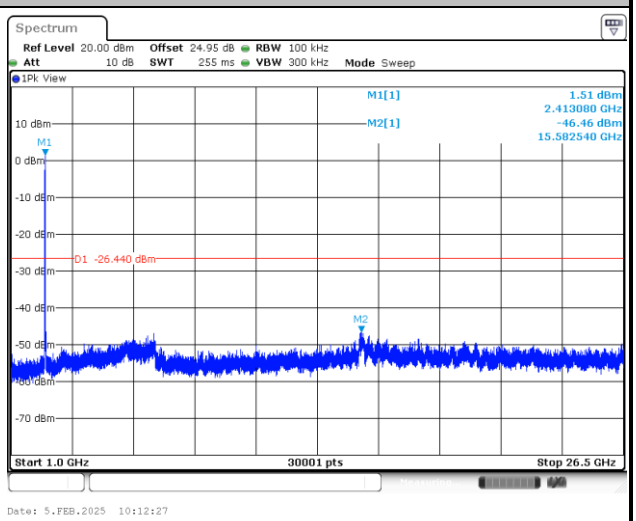
Test Mode :	802.11g	Test Channel :	12

100kHz PSD reference Level	Channel 12 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

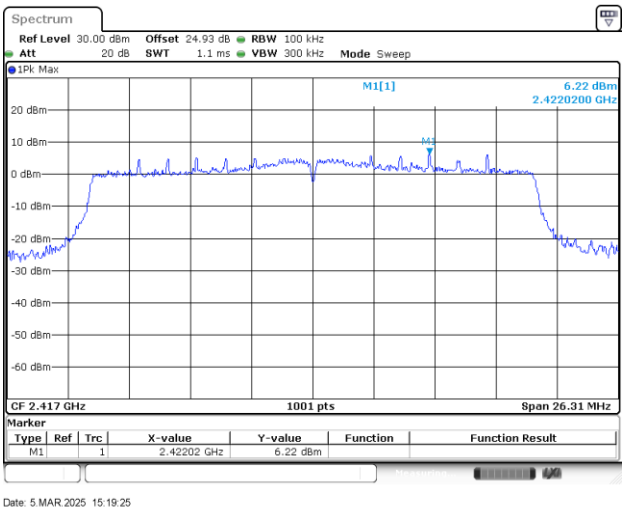
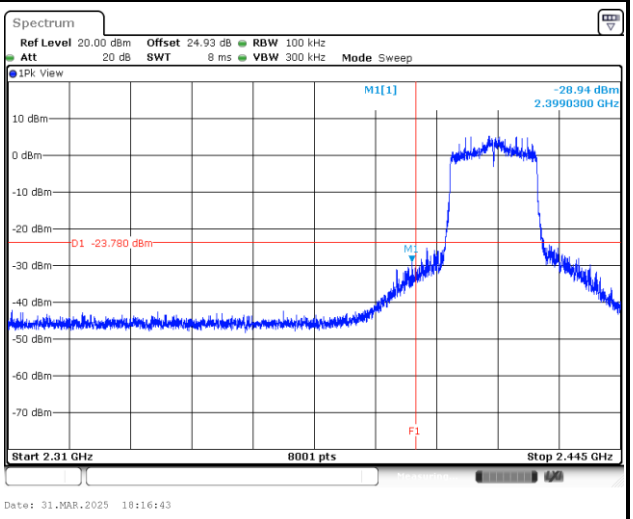
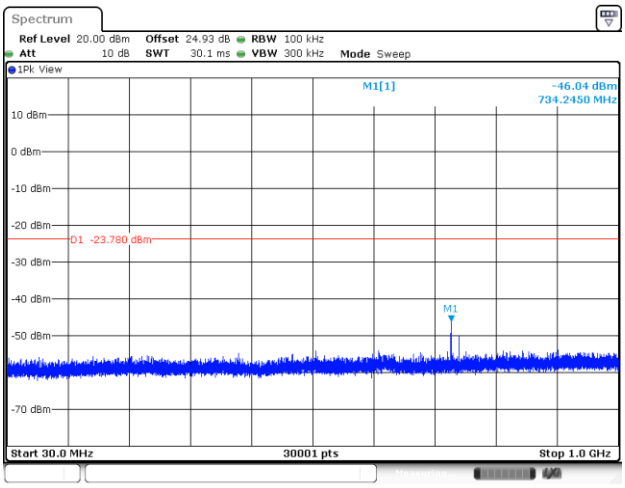
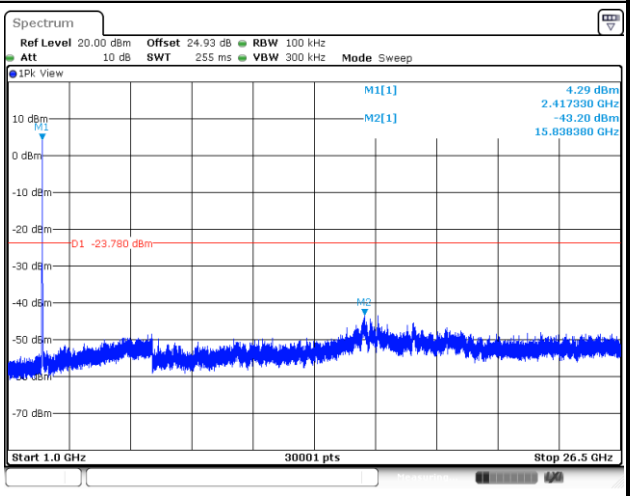
Test Mode :	802.11g	Test Channel :	13

100kHz PSD reference Level	Channel 13 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

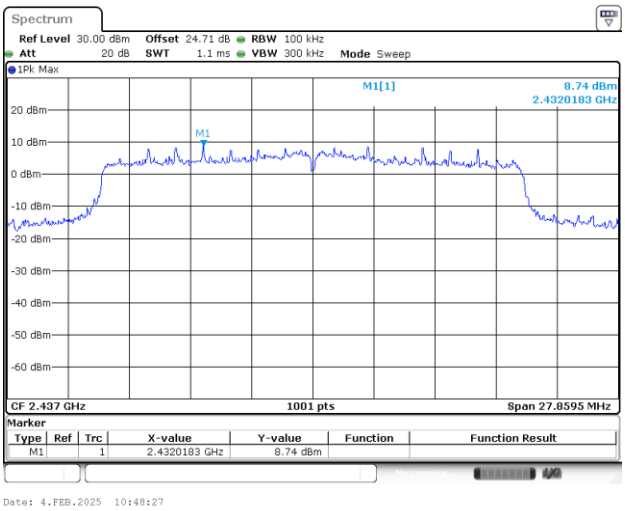
Test Mode :	802.11ax HE20_Full RU	Test Channel :	01

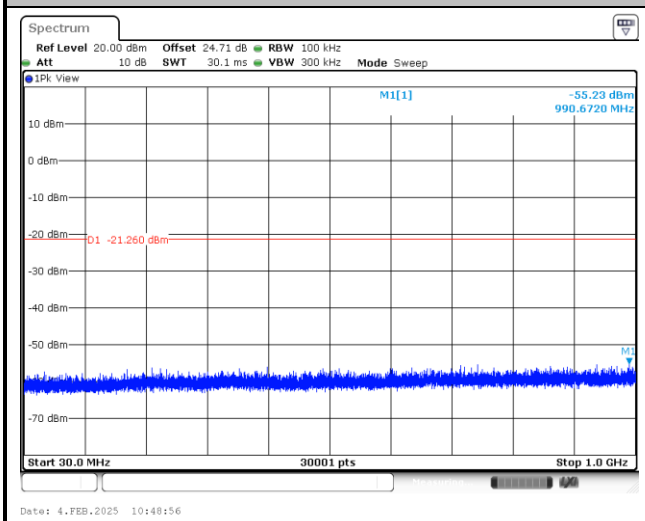
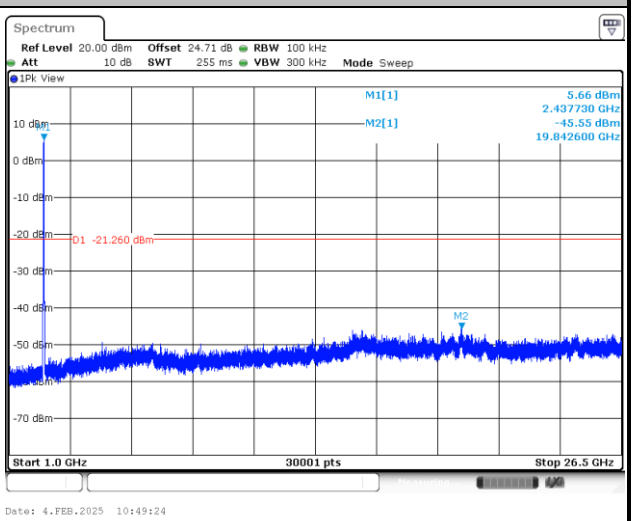
100kHz PSD reference Level	Channel 01 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	02

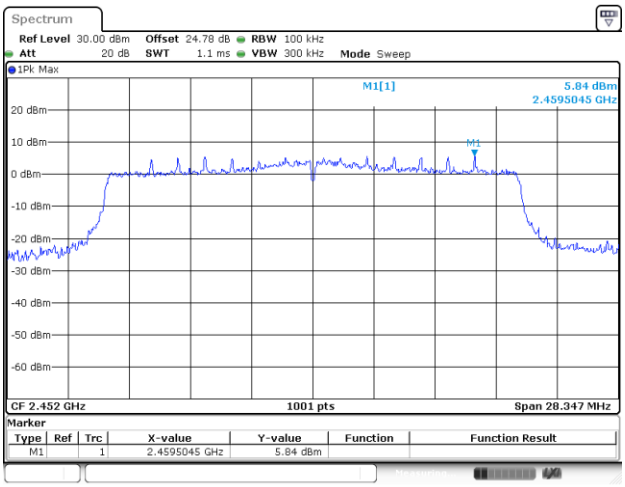
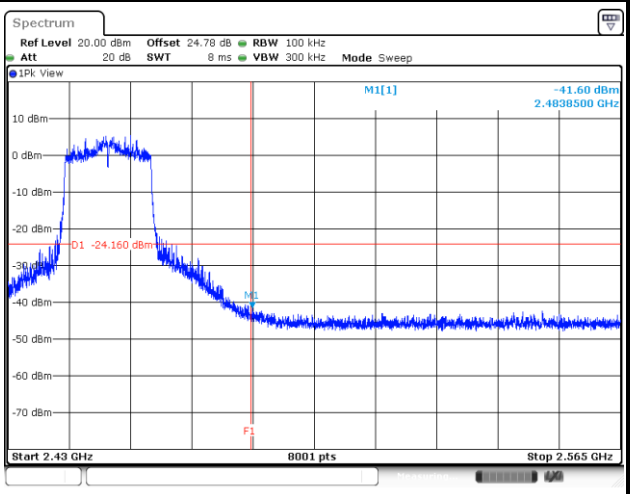
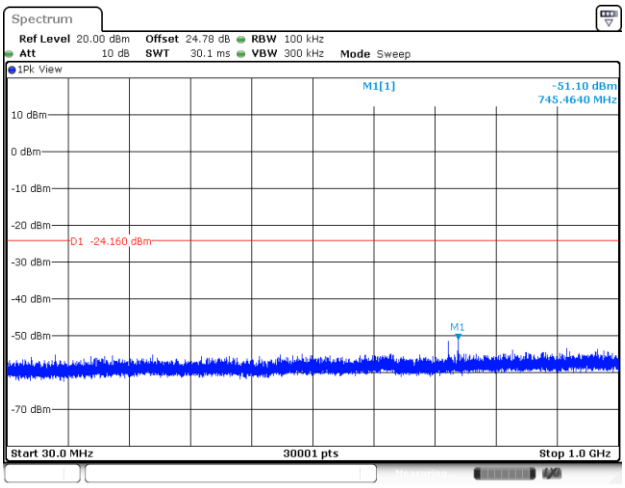
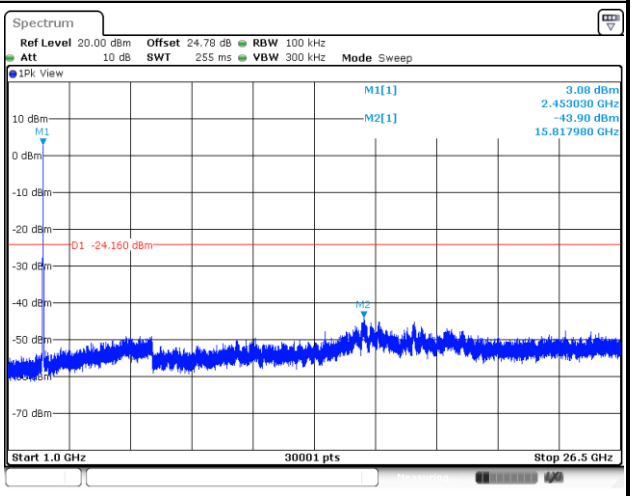
100kHz PSD reference Level	Channel 02 Plot
	
Date: 5.MAR.2025 15:19:25	Date: 31.MAR.2025 18:16:43
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	
Date: 5.MAR.2025 15:20:06	Date: 5.MAR.2025 15:20:30

Test Mode :	802.11ax HE20_Full RU	Test Channel :	06

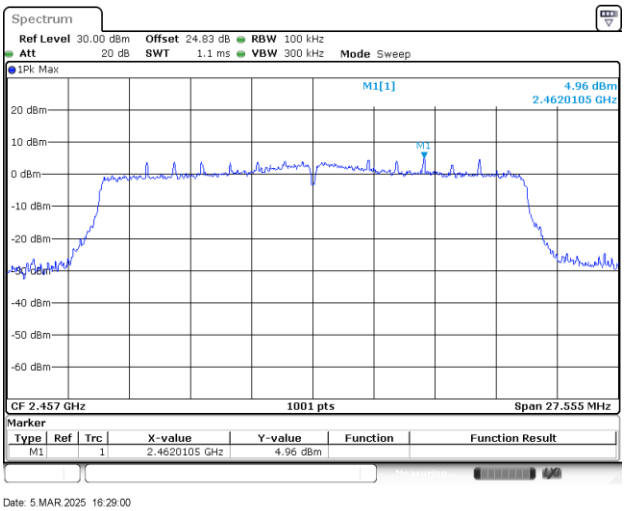
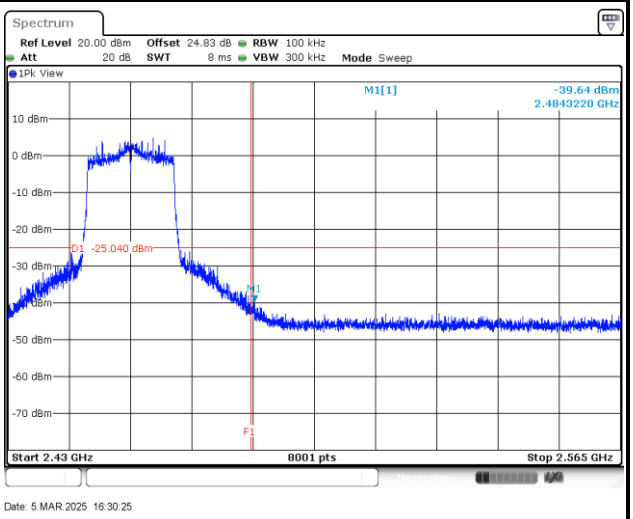
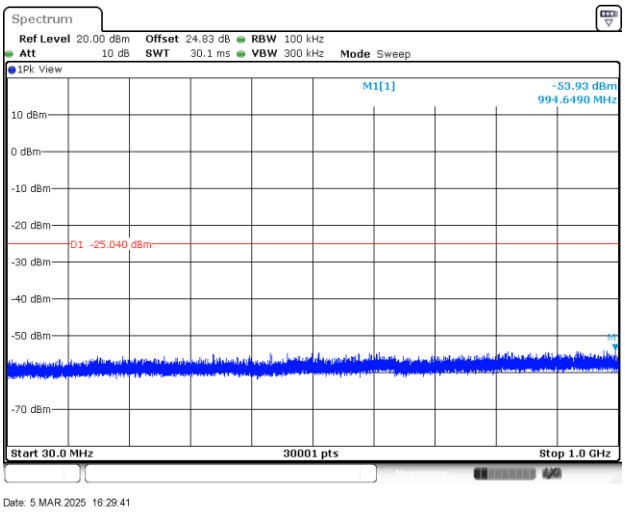
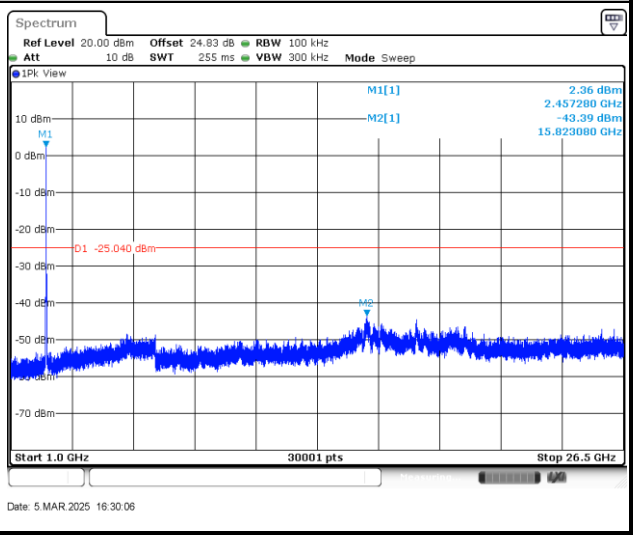
100kHz PSD reference Level	Channel 06 Plot
	

Spurious Emission 30MHz~1GHz	Spurious Emission 1GHz~26.5GHz
	

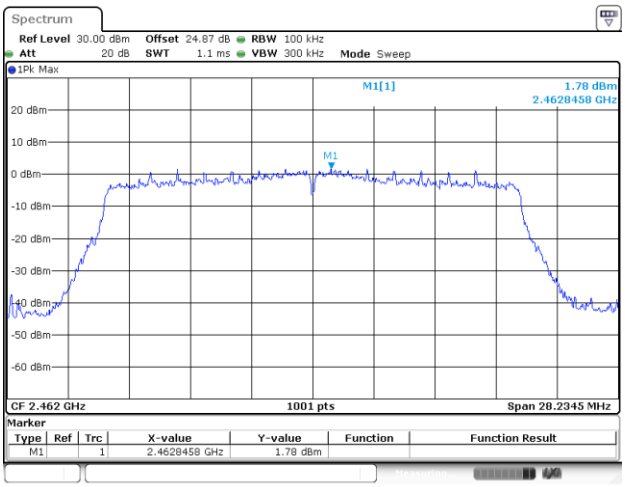
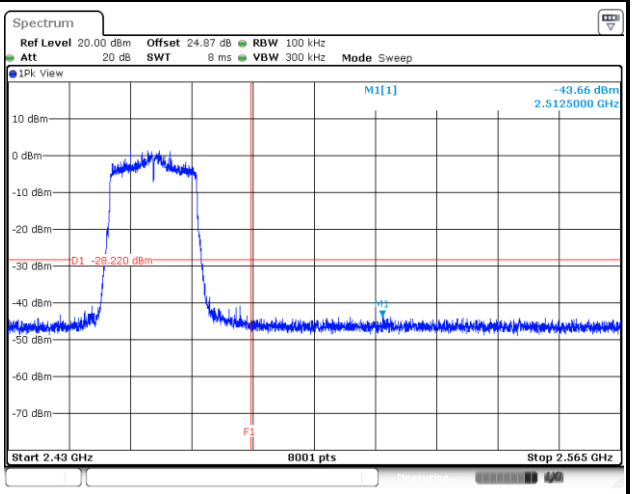
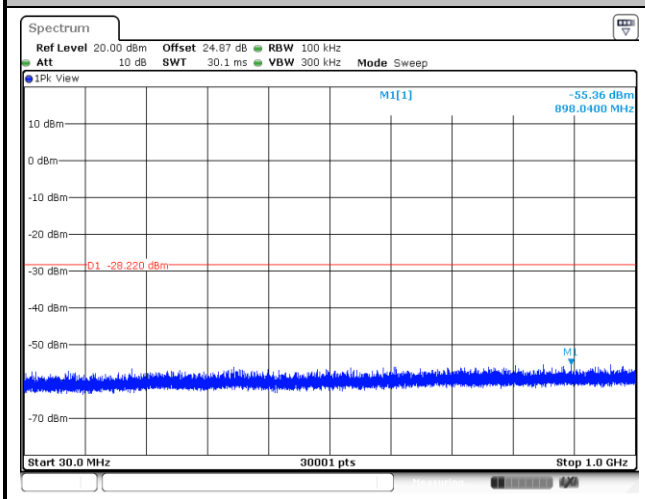
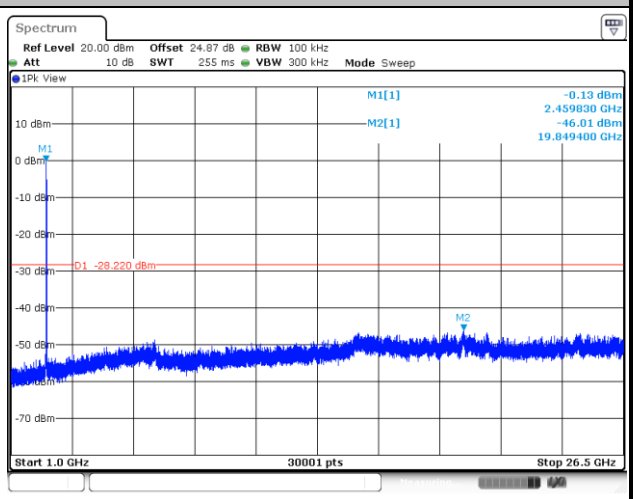
Test Mode :	802.11ax HE20_Full RU	Test Channel :	09

100kHz PSD reference Level	Channel 09 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

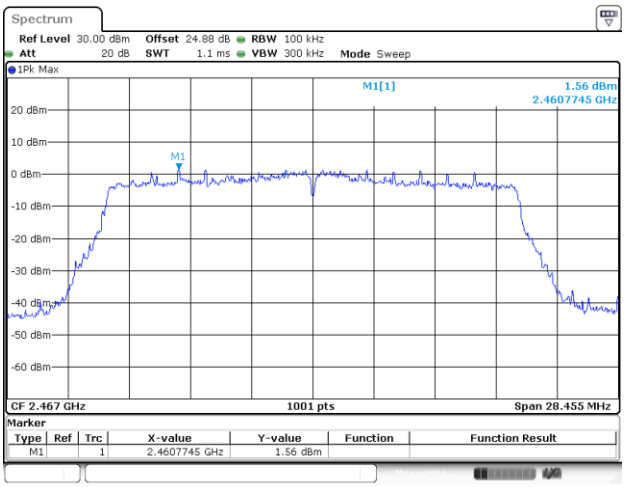
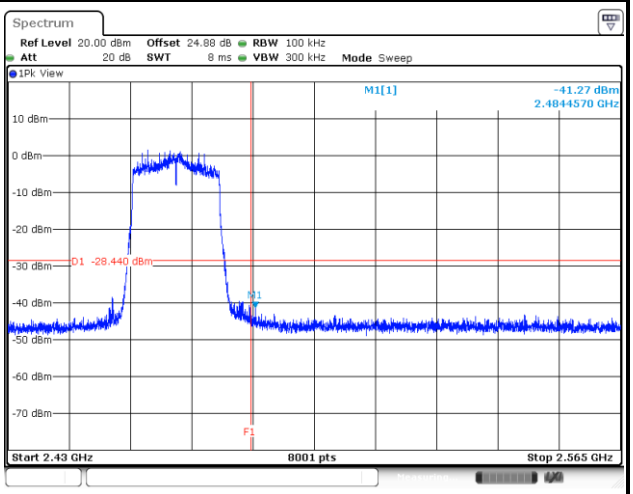
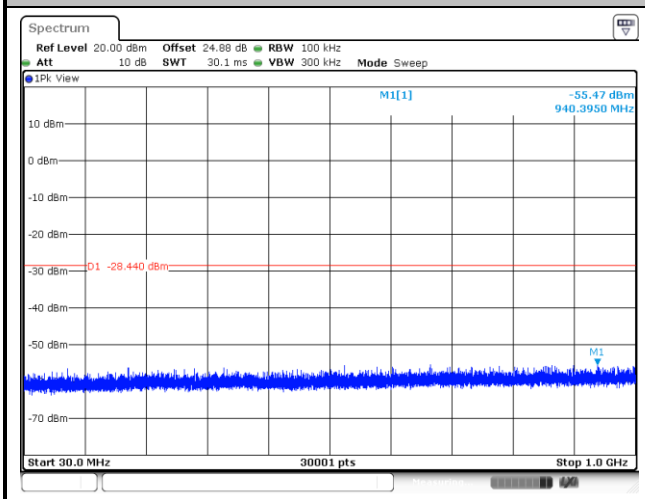
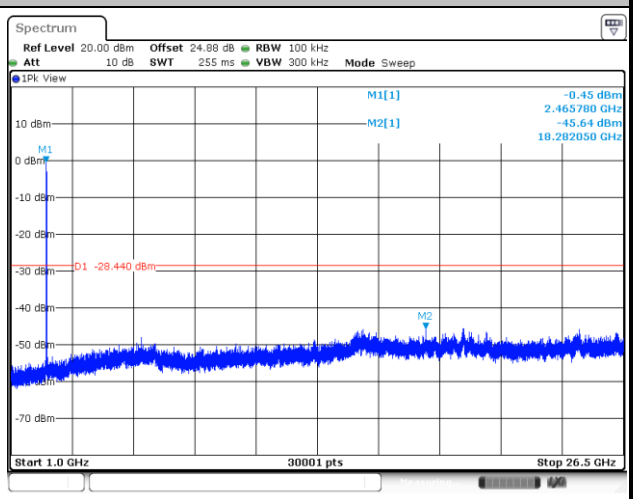
Test Mode :	802.11ax HE20_Full RU	Test Channel :	10

100kHz PSD reference Level	Channel 10 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	11

100kHz PSD reference Level	Channel 11 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**
	

Test Mode :	802.11ax HE20_Full RU	Test Channel :	12

100kHz PSD reference Level	Channel 12 Plot
	
Spurious Emission 30MHz~1GHz	**Spurious Emission 1GHz~26.5GHz**