

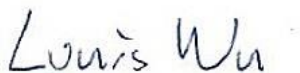


FCC RADIO TEST REPORT

FCC ID : 2AEUP-5DFYBA
Equipment : Video Doorbell
Brand Name : ring 
Model Name : 5DCFAB
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 21, 2025 and testing was performed from Aug. 27, 2025 to Jan. 09, 2026. 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.



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
FR580727-01B	01	Initial issue of report	Jan. 16, 2026

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	-
-	15.207	AC Conducted Emission	Not Required	See Note
3.6	15.203	Antenna Requirement	Pass	-

Note:

1. Not required means after assessing, test items are not necessary to carry out.
2. The device only supports battery power.

Conformity Assessment Condition:

1. ECR inquiry for data referencing from FCC ID:2AEUPBHADP011 has been approved by TCB. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. FCC ID: 2AEUP-5DFYBA is different from FCC ID:2AEUPBHADP011(Reference model), in the following:
 - The only difference between FCC ID: 2AEUP-5DFYBA and FCC ID: 2AEUPBHADP011 are Remove 24G Radar Function& Component
3. All the test results are referenced from FCC ID:2AEUPBHADP011(Sporton Test Report FR580727B), and spot check results to justify data referencing is presented in the Appendix E.
4. 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. 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: Keven Cheng
Report Producer: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax.		
Antenna Type WLAN: Stamped metal IFA antenna Bluetooth: Stamped metal IFA antenna		

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4

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

1.2 EUT Information (Referenced Model)

Product Feature		
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and 24GHz Radar.		
Antenna Type WLAN: Stamped metal IFA antenna Bluetooth: Stamped metal IFA antenna		

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 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, 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.
FCC designation No.: TW3786

1.5 Applicable Standards

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

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020

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.
3. 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

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: 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 adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

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 tone RU.

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

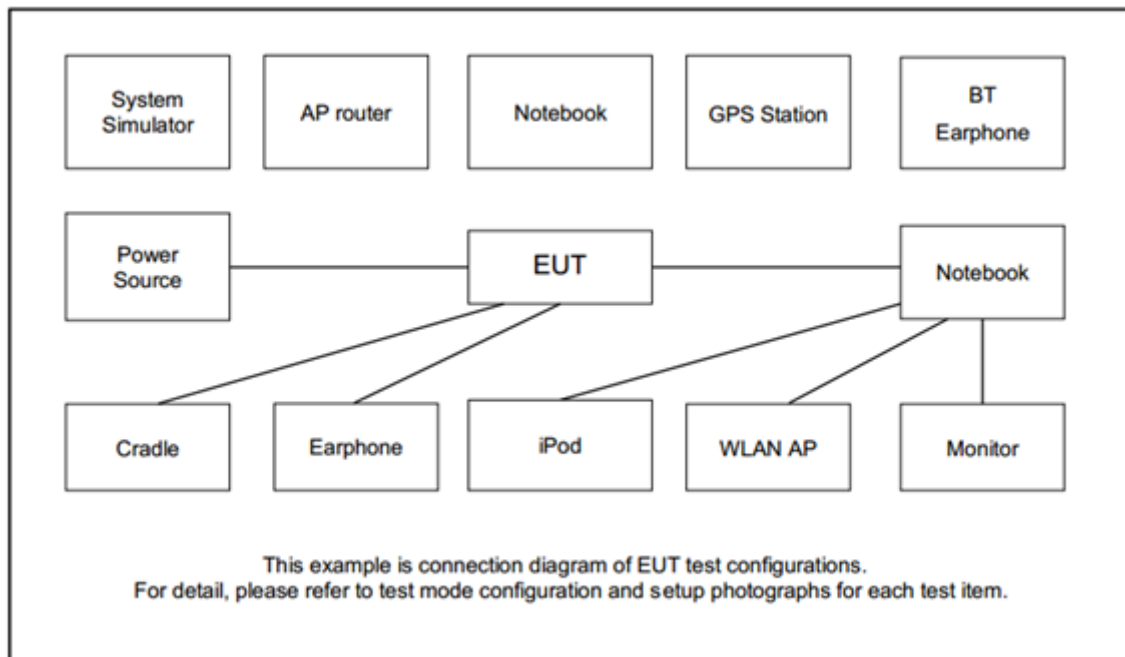
The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

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

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

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “Tera Term” 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.

2.5 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.

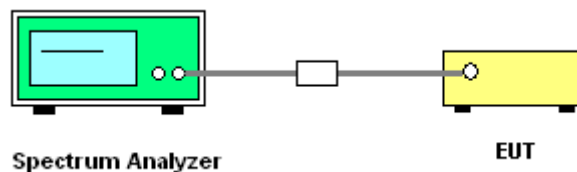
3.1.2 Measuring Instruments

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) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
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) $\geq 3 * RBW$.
5. 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.

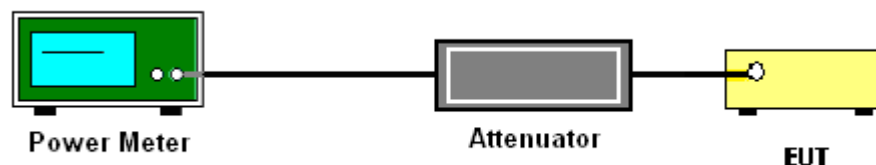
3.2.2 Measuring Instruments

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.

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 = No faster than coupled (auto) time, 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.

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.

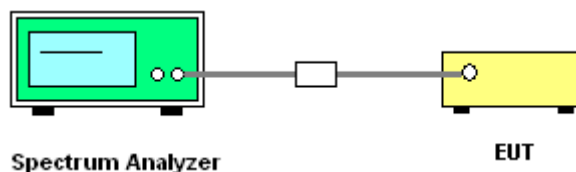
3.4.2 Measuring Instruments

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 “-”.

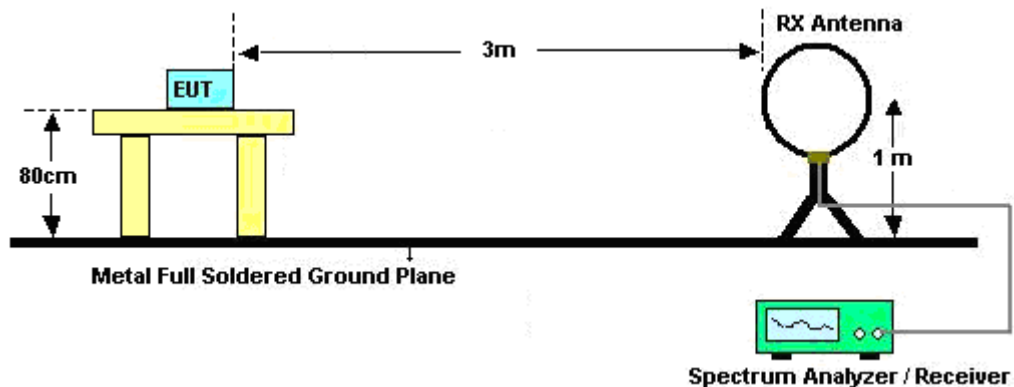
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with 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 $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

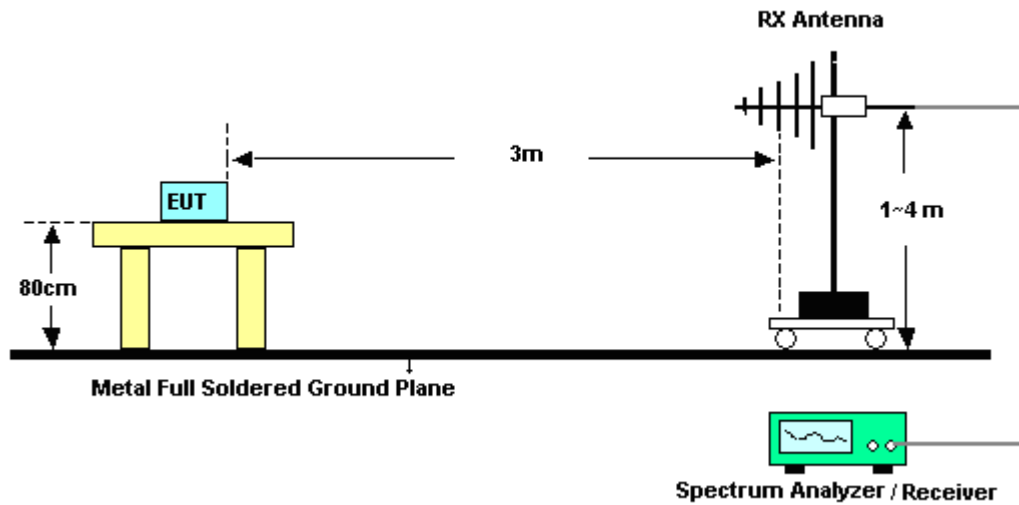
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

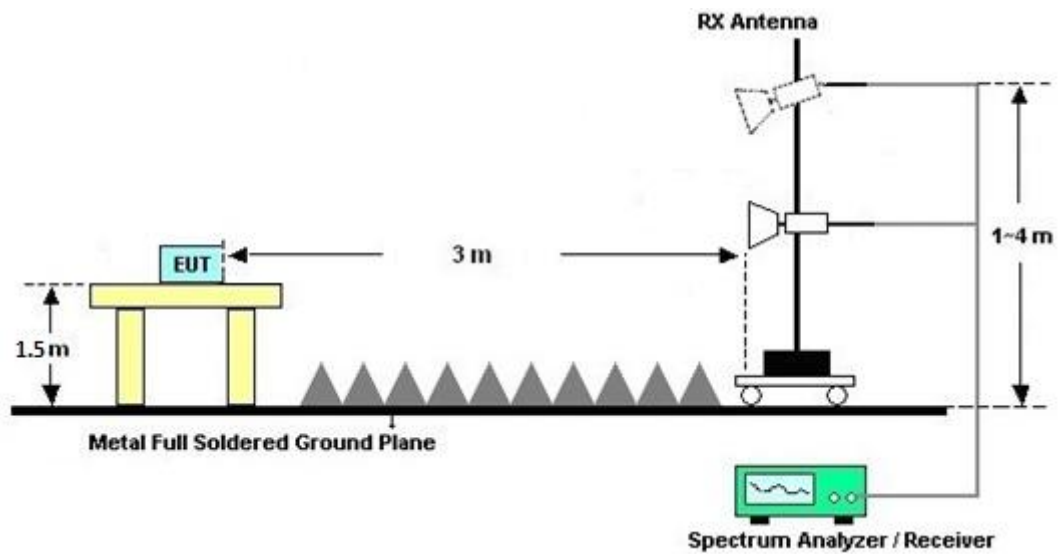
For radiated emissions below 30MHz



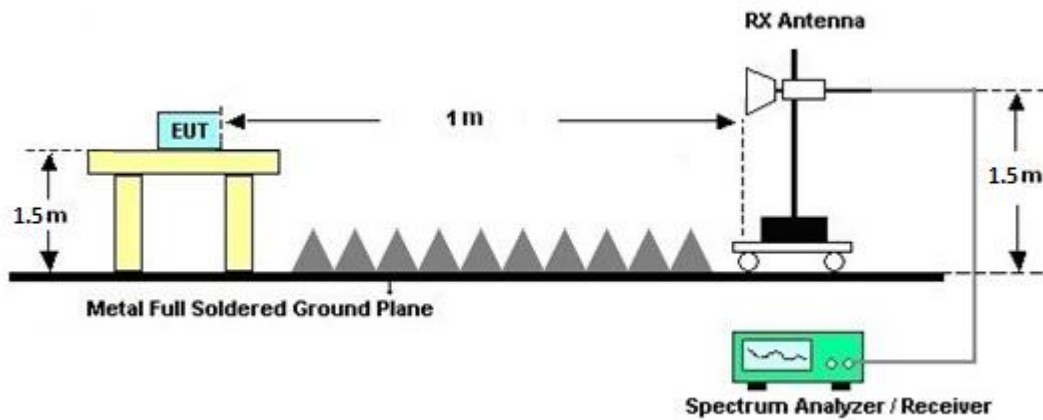
For radiated emissions from 30MHz to 1GHz



For radiated 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 B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Aug. 27, 2025 ~ Sep. 26, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Aug. 27, 2025 ~ Sep. 26, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Dec.23,2024	Aug. 27, 2025 ~ Sep. 26, 2025	Dec.22,2025	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Aug. 27, 2025 ~ Sep. 26, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Aug. 27, 2025 ~ Sep. 26, 2025	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9kHz~30MHz	Mar. 06, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	Mar. 05, 2026	Radiation (03CH22-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Aug. 28, 2025 ~ Nov. 04, 2025	Aug. 28, 2025	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Dec. 17, 2024	Aug. 28, 2025 ~ Nov. 04, 2025	Dec. 16, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 13, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	Jul. 12, 2026	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18E N	1GHz~18GHz	May. 20, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	May. 19, 2026	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	Jul. 01, 2026	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	Aug. 28, 2025 ~ Sep. 25, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 26, 2025	Sep. 26, 2025 ~ Nov. 04, 2025	Sep. 25, 2026	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Nov. 29, 2024	Aug. 28, 2025 ~ Nov. 04, 2025	Nov. 28, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	Aug. 28, 2025 ~ Sep. 21, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 22, 2025	Sep. 22, 2025 ~ Nov. 04, 2025	Sep. 21, 2026	Radiation (03CH22-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 21, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	Apr. 20, 2026	Radiation (03CH22-HY)
Hygrometer	TECEPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	Aug. 28, 2025 ~ Nov. 04, 2025	Dec. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 28, 2025 ~ Nov. 04, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 28, 2025 ~ Nov. 04, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 28, 2025 ~ Nov. 04, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	Aug. 28, 2025 ~ Nov. 04, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMCI	SUCOFLEX 102/EMCI01Y-K M-KM-500/EMCI 01Y-KM-KM-900 0	804611/2,240 914, 25043351,25 043350	30MHz~40GHz	May. 19, 2025	Aug. 28, 2025 ~ Nov. 04, 2025	May. 18, 2026	Radiation (03CH22-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.7 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Joseph Hu	Temperature:	21~25	°C
Test Date:	2025/8/27~2025/09/26	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant0	Ant1	Ant0	Ant1		
11b	1Mbps	1	1	2412	13.02	-	9.05	-	0.50	Pass
11b	1Mbps	1	6	2437	13.07	-	9.04	-	0.50	Pass
11b	1Mbps	1	11	2462	13.08	-	8.64	-	0.50	Pass
11b	1Mbps	1	12	2467	13.02	-	8.63	-	0.50	Pass
11b	1Mbps	1	13	2472	13.23	-	9.08	-	0.50	Pass
11g	6Mbps	1	1	2412	17.07	-	15.87	-	0.50	Pass
11g	6Mbps	1	2	2417	17.26	-	15.99	-	0.50	Pass
11g	6Mbps	1	6	2437	17.47	-	16.09	-	0.50	Pass
11g	6Mbps	1	11	2462	17.11	-	15.96	-	0.50	Pass
11g	6Mbps	1	12	2467	17.05	-	15.93	-	0.50	Pass
11g	6Mbps	1	13	2472	17.06	-	15.93	-	0.50	Pass
VHT20	MCS0	1	1	2412	17.88	-	17.28	-	0.50	Pass
VHT20	MCS0	1	2	2417	17.98	-	17.22	-	0.50	Pass
VHT20	MCS0	1	6	2437	18.42	-	16.91	-	0.50	Pass
VHT20	MCS0	1	10	2457	17.97	-	17.24	-	0.50	Pass
VHT20	MCS0	1	11	2462	17.87	-	17.16	-	0.50	Pass
VHT20	MCS0	1	12	2467	17.87	-	17.15	-	0.50	Pass
VHT20	MCS0	1	13	2472	17.94	-	17.15	-	0.50	Pass

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
					Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	19.12	-		30.00	-	4.00	-	23.12	-	36.00	-	Pass
11b	1Mbps	1	6	2437	19.11	-		30.00	-	4.00	-	23.11	-	36.00	-	Pass
11b	1Mbps	1	11	2462	19.41	-		30.00	-	4.00	-	23.41	-	36.00	-	Pass
11b	1Mbps	1	12	2467	15.06	-		30.00	-	4.00	-	19.06	-	36.00	-	Pass
11b	1Mbps	1	13	2472	13.87	-		30.00	-	4.00	-	17.87	-	36.00	-	Pass
11g	6Mbps	1	1	2412	16.16	-		30.00	-	4.00	-	20.16	-	36.00	-	Pass
11g	6Mbps	1	2	2417	18.46	-		30.00	-	4.00	-	22.46	-	36.00	-	Pass
11g	6Mbps	1	6	2437	19.50	-		30.00	-	4.00	-	23.50	-	36.00	-	Pass
11g	6Mbps	1	11	2462	16.99	-		30.00	-	4.00	-	20.99	-	36.00	-	Pass
11g	6Mbps	1	12	2467	14.29	-		30.00	-	4.00	-	18.29	-	36.00	-	Pass
11g	6Mbps	1	13	2472	11.40	-		30.00	-	4.00	-	15.40	-	36.00	-	Pass
HT20	MCS0	1	1	2412	15.09	-		30.00	-	4.00	-	19.09	-	36.00	-	Pass
HT20	MCS0	1	2	2417	17.67	-		30.00	-	4.00	-	21.67	-	36.00	-	Pass
HT20	MCS0	1	6	2437	19.04	-		30.00	-	4.00	-	23.04	-	36.00	-	Pass
HT20	MCS0	1	10	2457	17.55	-		30.00	-	4.00	-	21.55	-	36.00	-	Pass
HT20	MCS0	1	11	2462	15.48	-		30.00	-	4.00	-	19.48	-	36.00	-	Pass
HT20	MCS0	1	12	2467	14.55	-		30.00	-	4.00	-	18.55	-	36.00	-	Pass
HT20	MCS0	1	13	2472	8.62	-		30.00	-	4.00	-	12.62	-	36.00	-	Pass
VHT20	MCS0	1	1	2412	15.19	-		30.00	-	4.00	-	19.19	-	36.00	-	Pass
VHT20	MCS0	1	2	2417	17.77	-		30.00	-	4.00	-	21.77	-	36.00	-	Pass
VHT20	MCS0	1	6	2437	19.14	-		30.00	-	4.00	-	23.14	-	36.00	-	Pass
VHT20	MCS0	1	10	2457	17.29	-		30.00	-	4.00	-	21.29	-	36.00	-	Pass
VHT20	MCS0	1	11	2462	15.58	-		30.00	-	4.00	-	19.58	-	36.00	-	Pass
VHT20	MCS0	1	12	2467	14.65	-		30.00	-	4.00	-	18.65	-	36.00	-	Pass
VHT20	MCS0	1	13	2472	8.72	-		30.00	-	4.00	-	12.72	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
11b	1Mbps	1	1	2412	-3.16	-		4.00	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-3.02	-		4.00	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-2.62	-		4.00	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-7.35	-		4.00	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-8.23	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-8.50	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	2	2417	-6.68	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-4.78	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-7.53	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-10.54	-		4.00	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-12.57	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	1	2412	-10.53	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	2	2417	-6.88	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	6	2437	-6.20	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	10	2457	-7.79	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	11	2462	-9.90	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	12	2467	-11.04	-		4.00	-	8.00	-	Pass
VHT20	MCS0	1	13	2472	-15.09	-		4.00	-	8.00	-	Pass

Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1		
HE20	MCS0	1	1	2412	Full	18.87	-	18.50	-	0.50	Pass
HE20	MCS0	1	2	2417	Full	18.84	-	18.60	-	0.50	Pass
HE20	MCS0	1	6	2437	Full	19.02	-	18.68	-	0.50	Pass
HE20	MCS0	1	10	2457	Full	18.85	-	18.72	-	0.50	Pass
HE20	MCS0	1	11	2462	Full	18.86	-	18.37	-	0.50	Pass
HE20	MCS0	1	12	2467	Full	18.86	-	18.66	-	0.50	Pass
HE20	MCS0	1	13	2472	Full	18.86	-	18.54	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																	
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
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	1	1	2412	Full	15.29	-		30.00	-	4.00	-	19.29	-	36.00	-	Pass
HE20	MCS0	1	1	2412	26/0	6.42	-		30.00	-	4.00	-	10.42	-	36.00	-	Pass
HE20	MCS0	1	1	2412	52/37	10.29	-		30.00	-	4.00	-	14.29	-	36.00	-	Pass
HE20	MCS0	1	1	2412	106/53	12.77	-		30.00	-	4.00	-	16.77	-	36.00	-	Pass
HE20	MCS0	1	2	2417	Full	17.87	-		30.00	-	4.00	-	21.87	-	36.00	-	Pass
HE20	MCS0	1	2	2417	26/0	10.21	-		30.00	-	4.00	-	14.21	-	36.00	-	Pass
HE20	MCS0	1	2	2417	52/37	12.21	-		30.00	-	4.00	-	16.21	-	36.00	-	Pass
HE20	MCS0	1	2	2417	106/53	15.35	-		30.00	-	4.00	-	19.35	-	36.00	-	Pass
HE20	MCS0	1	6	2437	Full	19.24	-		30.00	-	4.00	-	23.24	-	36.00	-	Pass
HE20	MCS0	1	6	2437	26/4	11.98	-		30.00	-	4.00	-	15.98	-	36.00	-	Pass
HE20	MCS0	1	6	2437	52/38	15.24	-		30.00	-	4.00	-	19.24	-	36.00	-	Pass
HE20	MCS0	1	6	2437	106/53	17.89	-		30.00	-	4.00	-	21.89	-	36.00	-	Pass
HE20	MCS0	1	10	2457	Full	17.75	-		30.00	-	4.00	-	21.75	-	36.00	-	Pass
HE20	MCS0	1	10	2457	26/8	8.31	-		30.00	-	4.00	-	12.31	-	36.00	-	Pass
HE20	MCS0	1	10	2457	52/40	10.63	-		30.00	-	4.00	-	14.63	-	36.00	-	Pass
HE20	MCS0	1	10	2457	106/54	14.97	-		30.00	-	4.00	-	18.97	-	36.00	-	Pass
HE20	MCS0	1	11	2462	Full	15.68	-		30.00	-	4.00	-	19.68	-	36.00	-	Pass
HE20	MCS0	1	11	2462	26/8	6.91	-		30.00	-	4.00	-	10.91	-	36.00	-	Pass
HE20	MCS0	1	11	2462	52/40	9.92	-		30.00	-	4.00	-	13.92	-	36.00	-	Pass
HE20	MCS0	1	11	2462	106/54	12.69	-		30.00	-	4.00	-	16.69	-	36.00	-	Pass
HE20	MCS0	1	12	2467	Full	14.75	-		30.00	-	4.00	-	18.75	-	36.00	-	Pass
HE20	MCS0	1	12	2467	26/8	5.97	-		30.00	-	4.00	-	9.97	-	36.00	-	Pass
HE20	MCS0	1	12	2467	52/40	9.42	-		30.00	-	4.00	-	13.42	-	36.00	-	Pass
HE20	MCS0	1	12	2467	106/54	13.22	-		30.00	-	4.00	-	17.22	-	36.00	-	Pass
HE20	MCS0	1	13	2472	Full	12.46	-		30.00	-	4.00	-	16.46	-	36.00	-	Pass
HE20	MCS0	1	13	2472	26/8	3.93	-		30.00	-	4.00	-	7.93	-	36.00	-	Pass
HE20	MCS0	1	13	2472	52/40	5.78	-		30.00	-	4.00	-	9.78	-	36.00	-	Pass
HE20	MCS0	1	13	2472	106/54	10.27	-		30.00	-	4.00	-	14.27	-	36.00	-	Pass

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

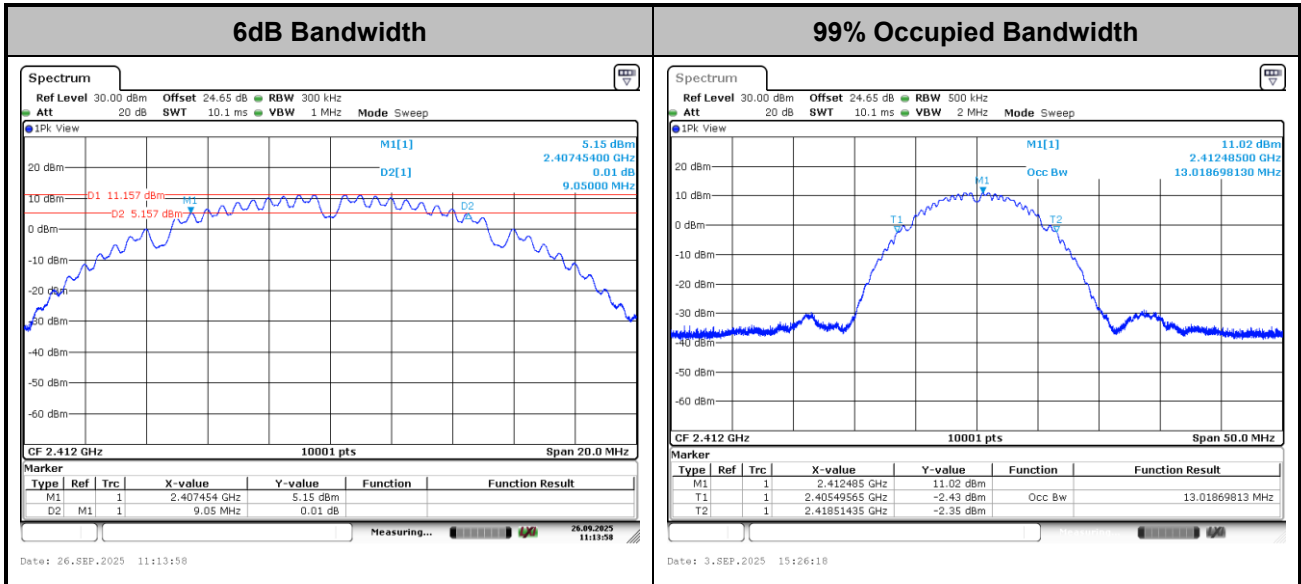
TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
HE20	MCS0	1	1	2412	Full	-11.16	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	26/0	-11.36	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	52/37	-11.29	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	1	2412	106/53	-11.46	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	2	2417	Full	-8.80	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	2	2417	26/0	-8.82	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	2	2417	52/37	-9.18	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	2	2417	106/53	-8.82	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	Full	-6.40	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	26/4	-6.67	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	52/38	-6.88	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	6	2437	106/53	-6.86	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	10	2457	Full	-8.90	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	10	2457	26/8	-9.33	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	10	2457	52/40	-9.28	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	10	2457	106/54	-9.34	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	Full	-11.28	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	26/8	-11.33	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	52/40	-11.54	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	11	2462	106/54	-11.78	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	12	2467	Full	-11.82	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	12	2467	26/8	-11.94	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	12	2467	52/40	-12.13	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	12	2467	106/54	-11.87	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	13	2472	Full	-14.78	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	13	2472	26/8	-15.03	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	13	2472	52/40	-14.93	-		4.00	-	8.00	-	Pass
HE20	MCS0	1	13	2472	106/54	-14.98	-		4.00	-	8.00	-	Pass

Measured power density (dBm) has offset with cable loss.

**6dB and 99% Occupied Bandwidth**

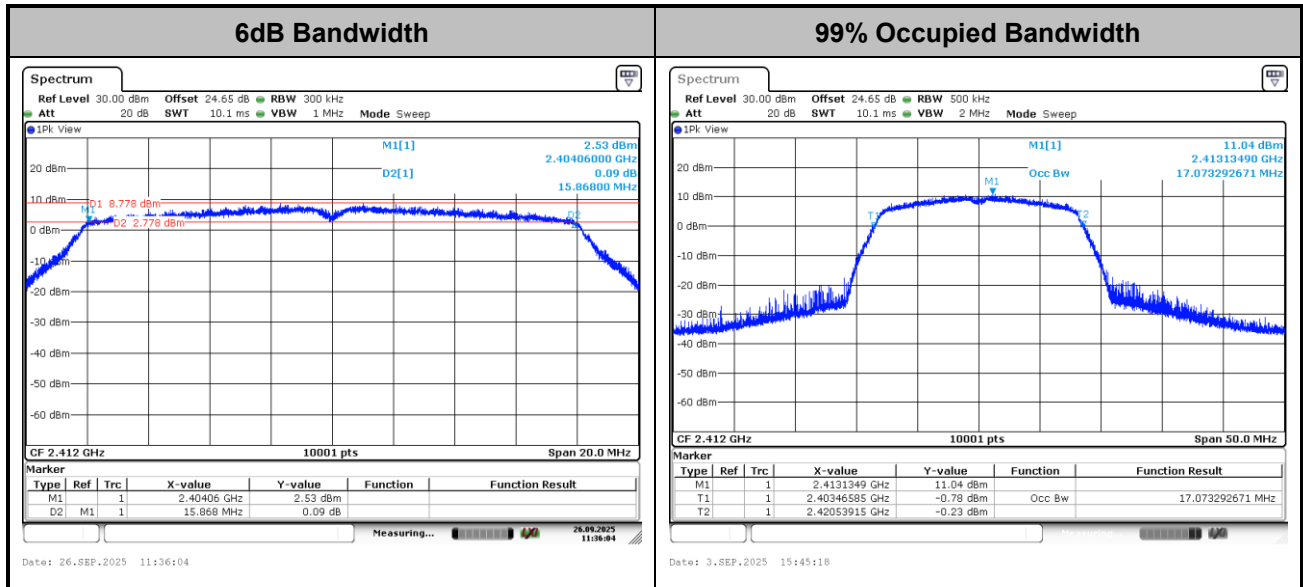
<802.11b>



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



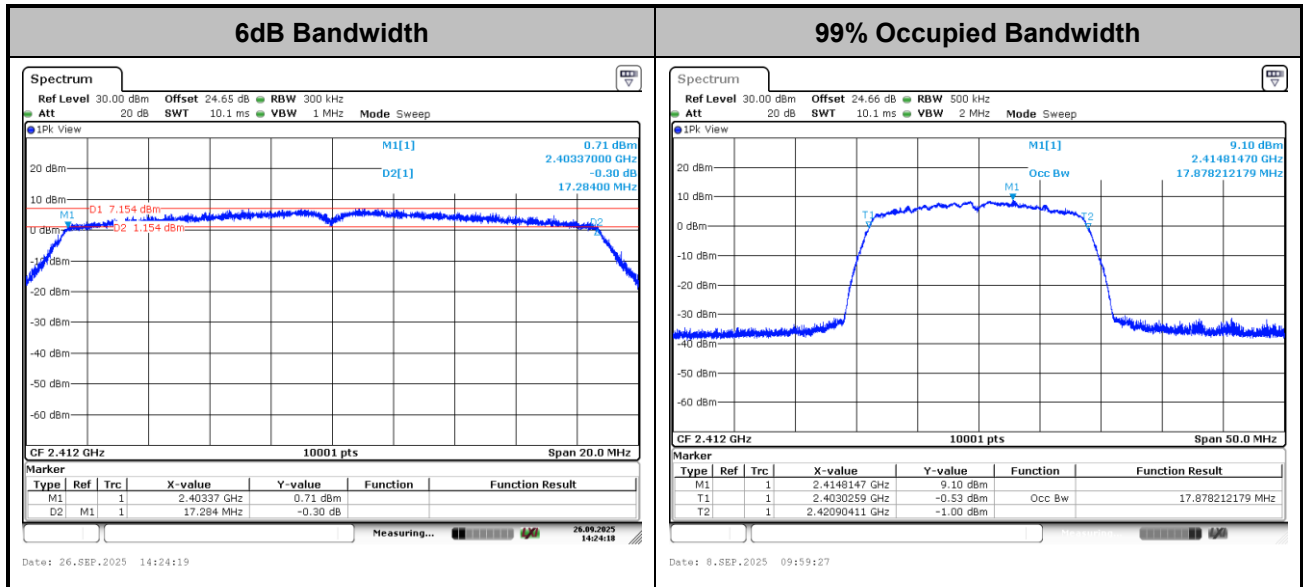
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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



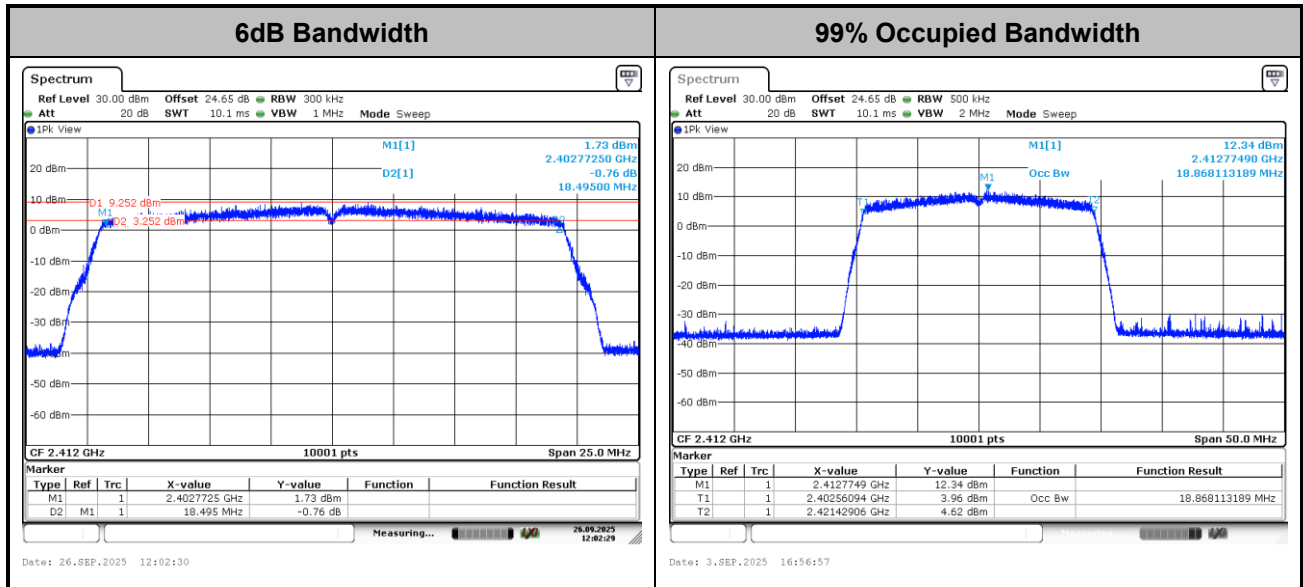
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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11ax20>

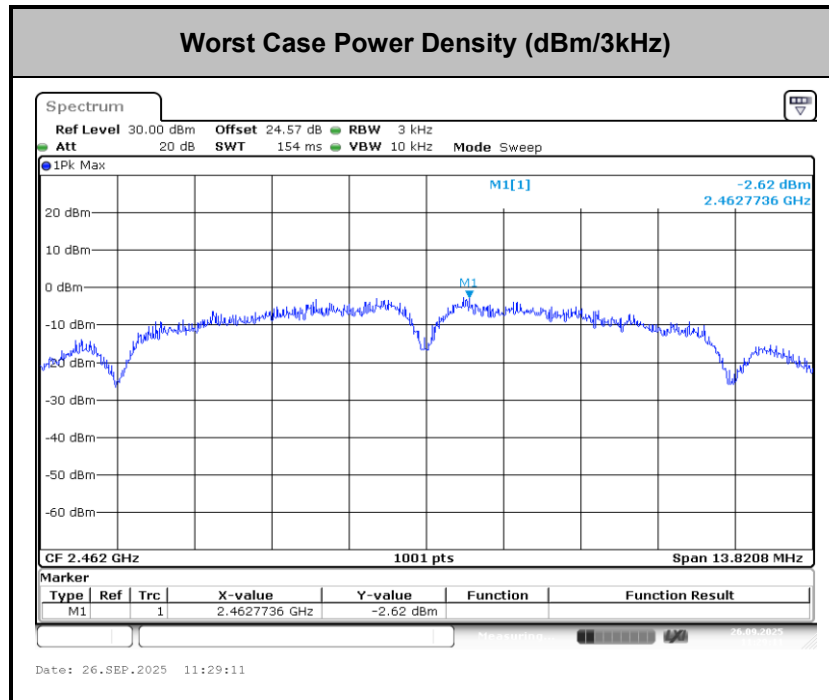


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



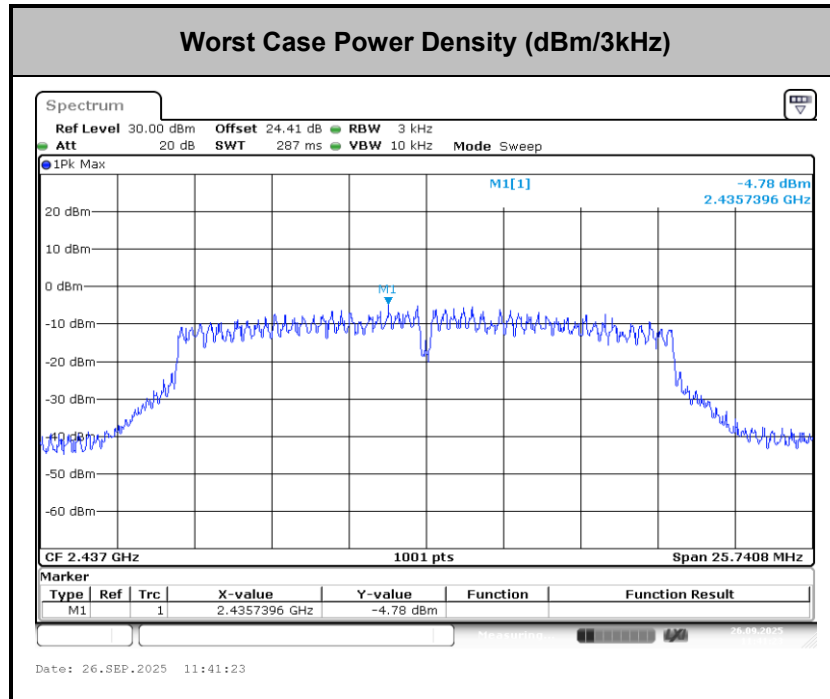
Power Spectral Density(dBm/3kHz)

<802.11b>



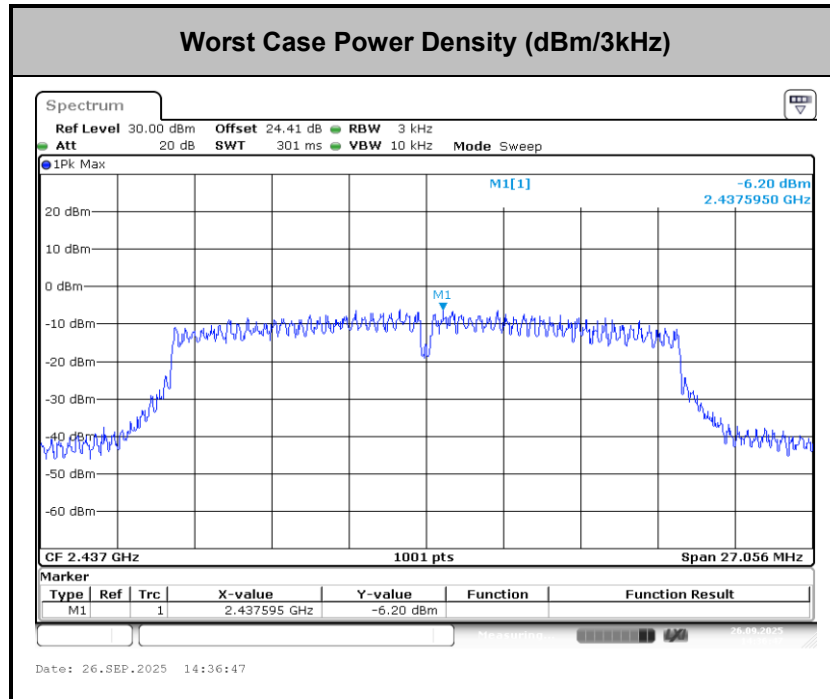


<802.11g>



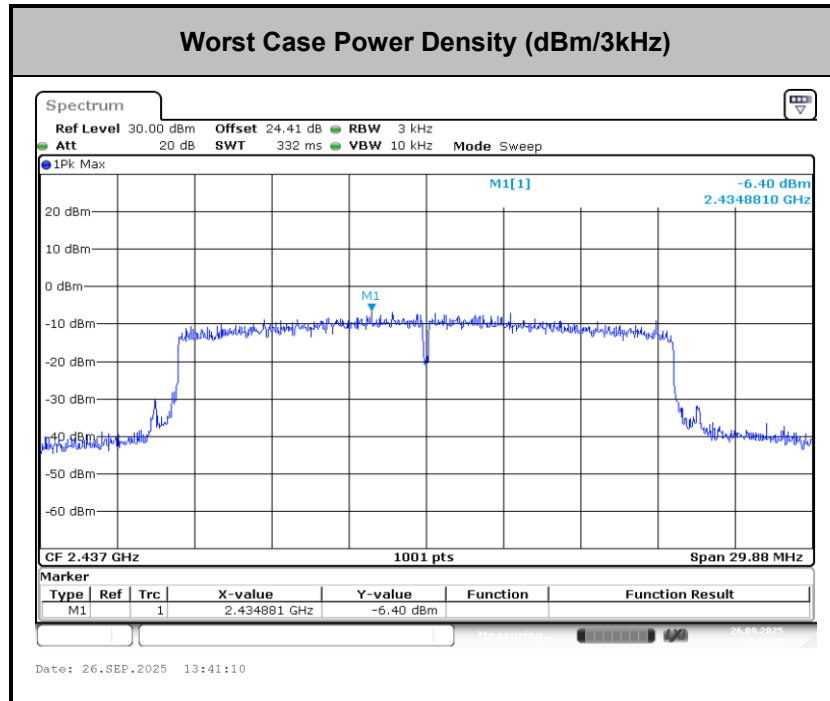


<802.11ac20>





<802.11ax20>

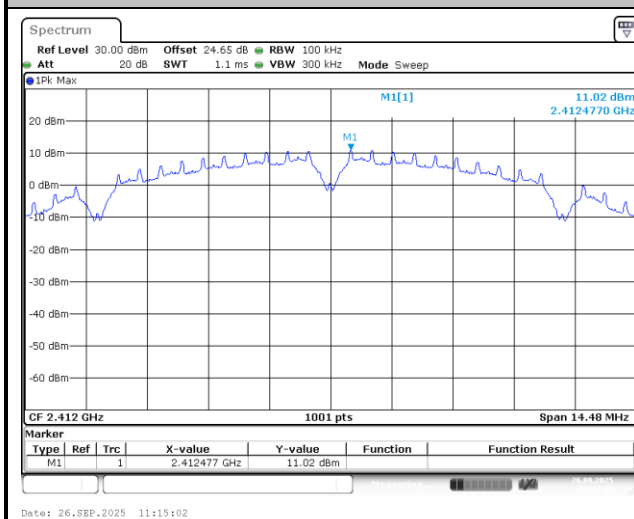
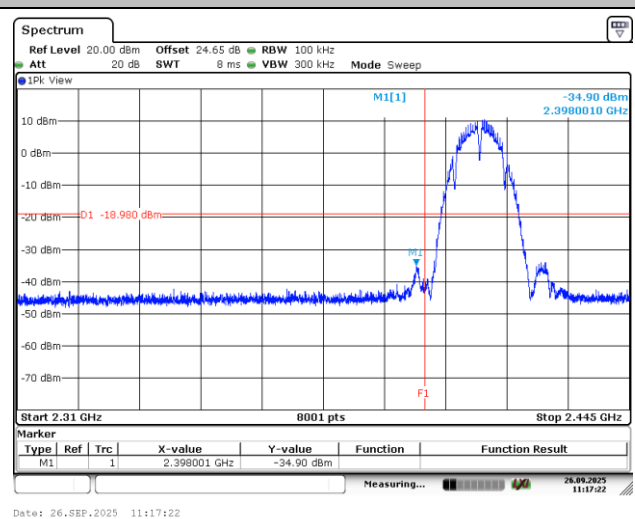
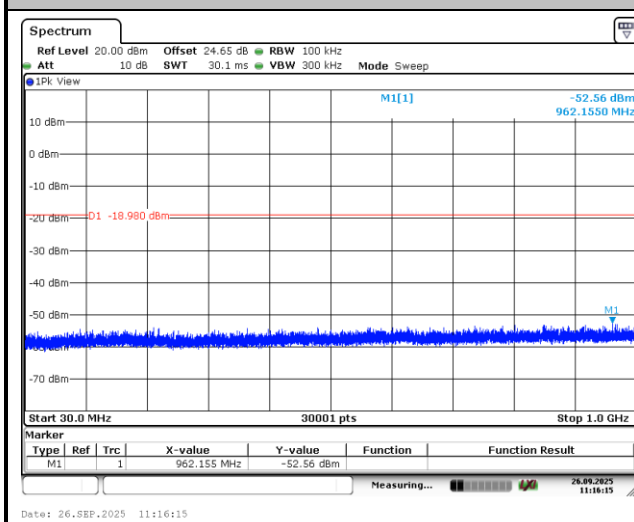
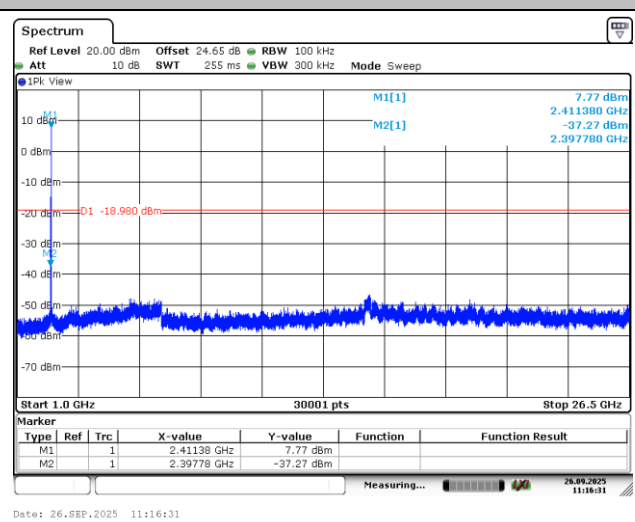


**Band Edges and Spurious Emission**

Number of TX = 1, Ant. 0 (Measured)

Test Mode : 802.11b

Test Channel : 01

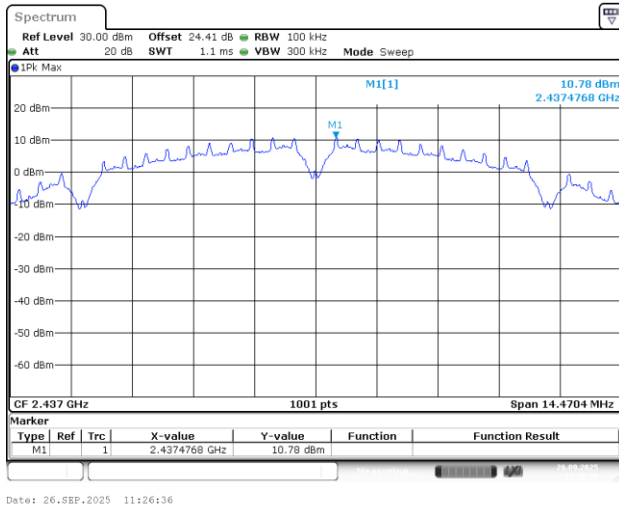
100kHz PSD reference Level**Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



Test Mode : 802.11b

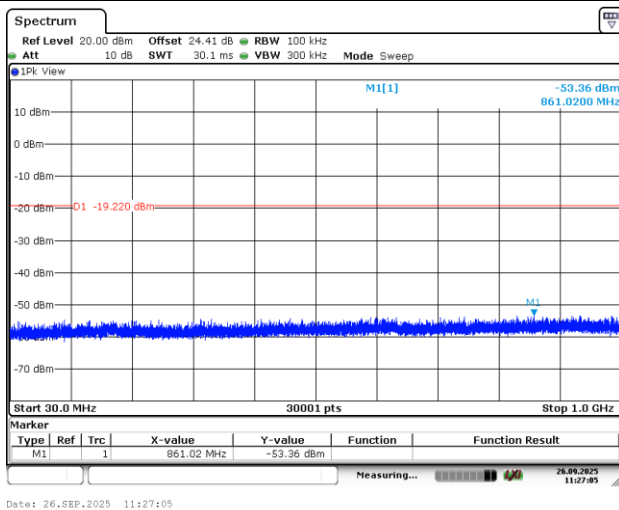
Test Channel : 06

100kHz PSD reference Level

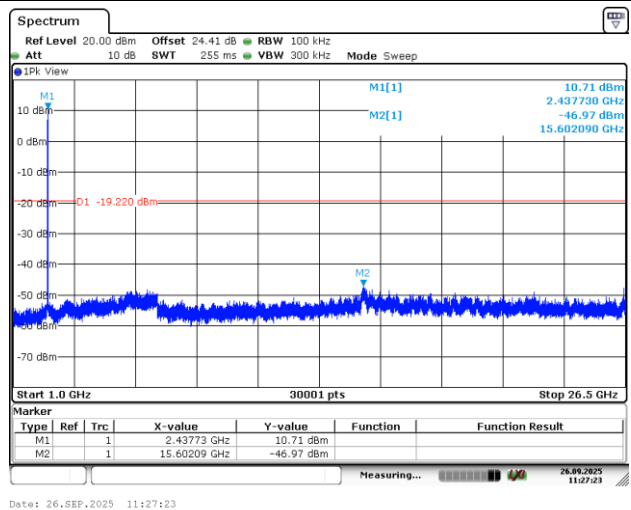


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

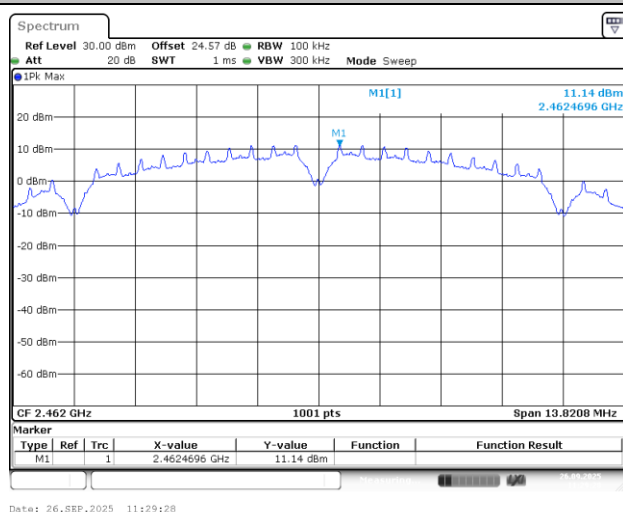




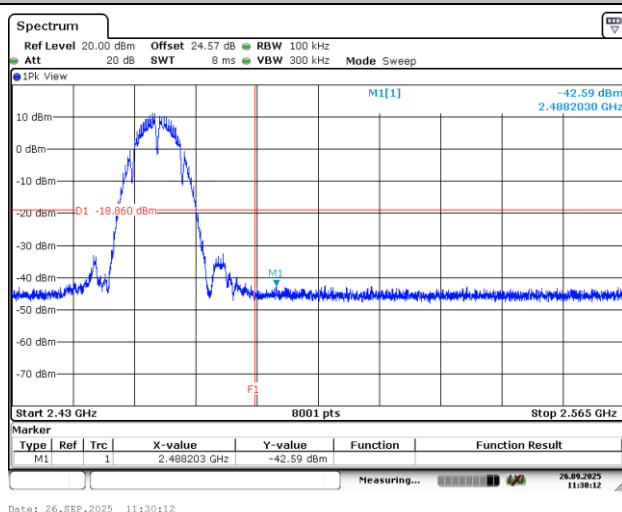
Test Mode : 802.11b

Test Channel : 11

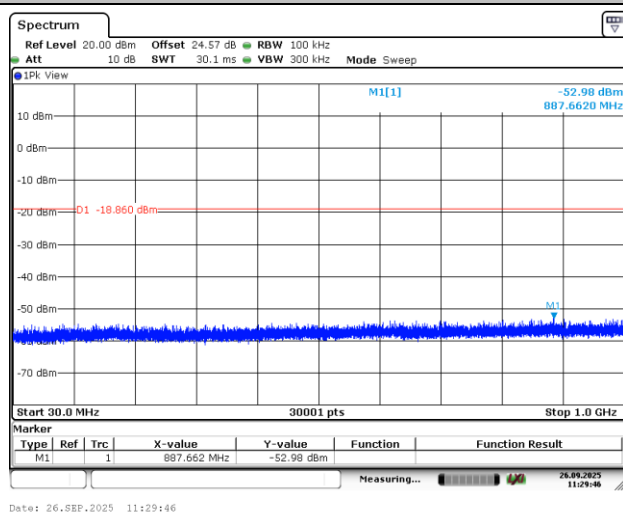
100kHz PSD reference Level



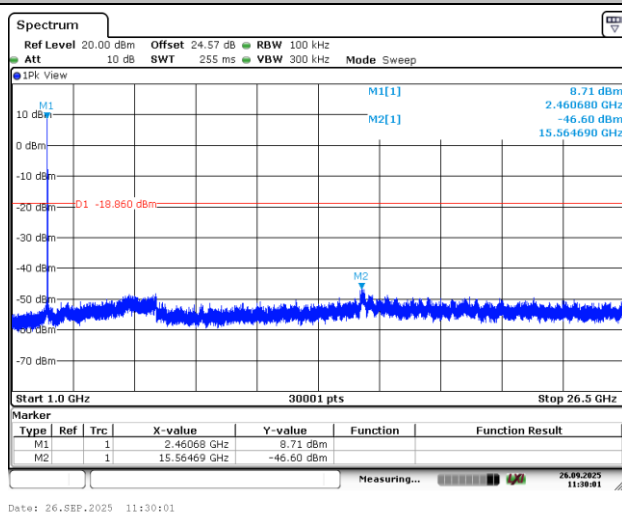
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

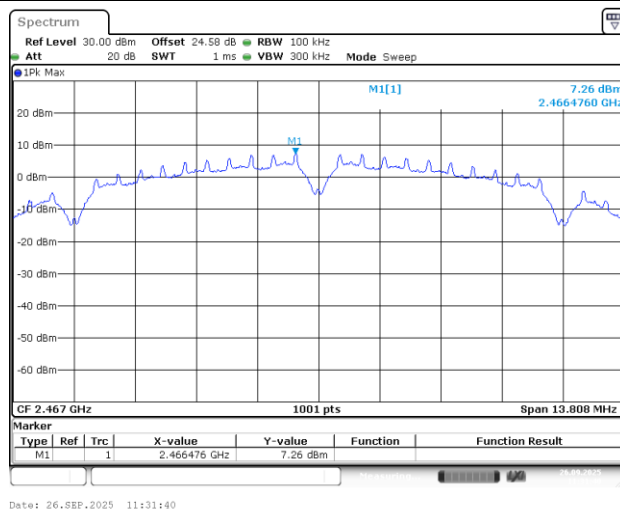




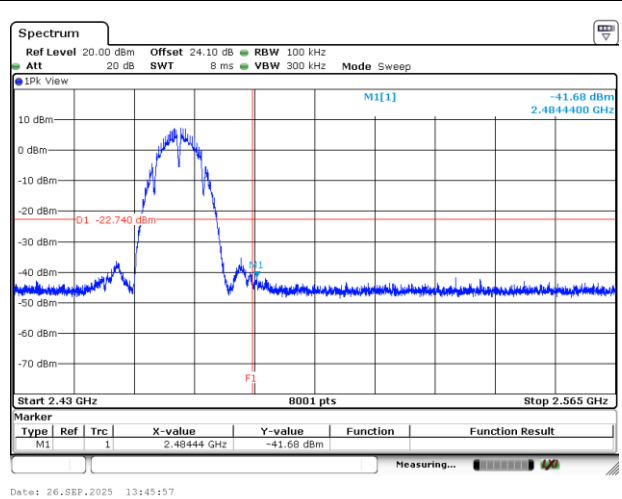
Test Mode : 802.11b

Test Channel : 12

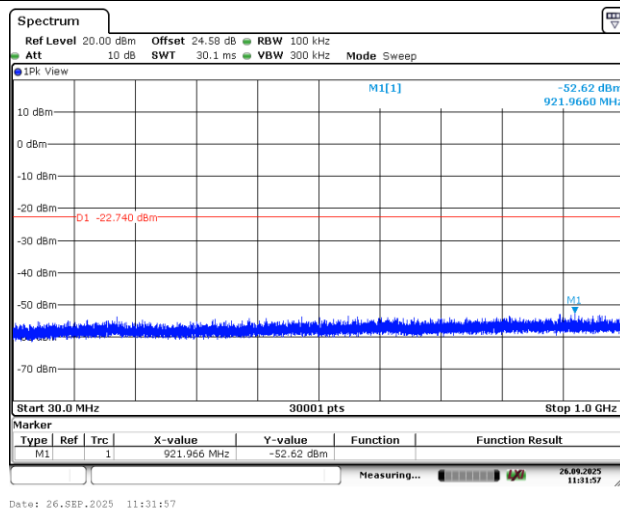
100kHz PSD reference Level



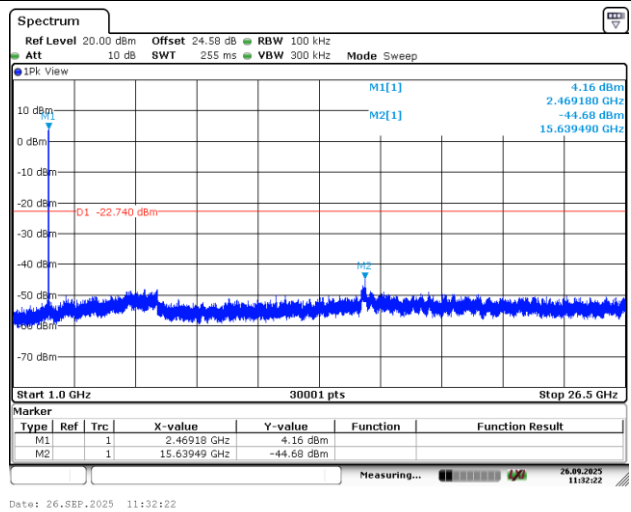
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

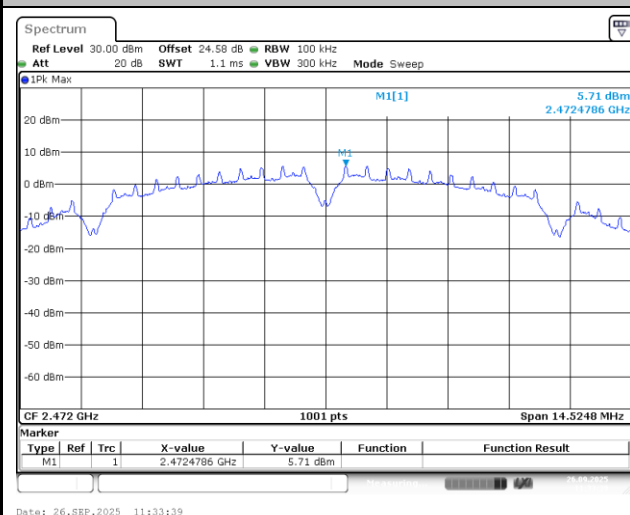




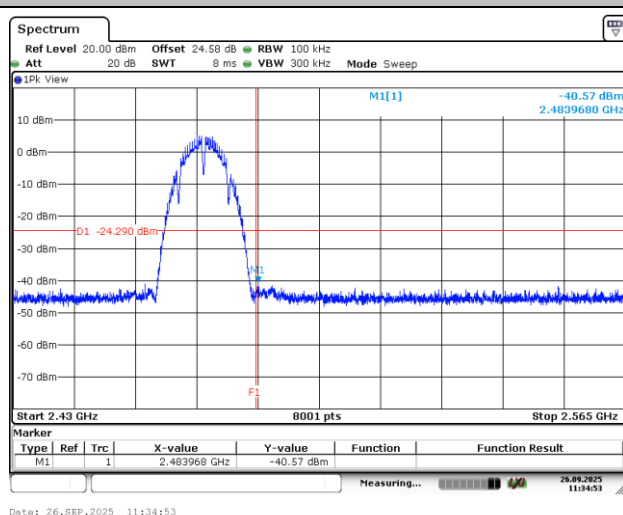
Test Mode : 802.11b

Test Channel : 13

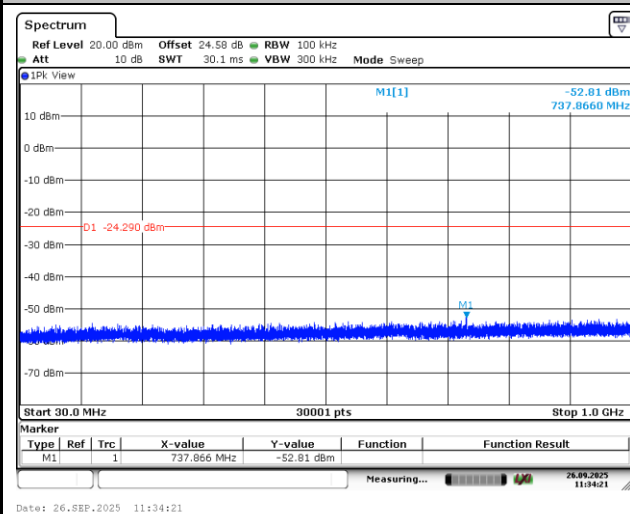
100kHz PSD reference Level



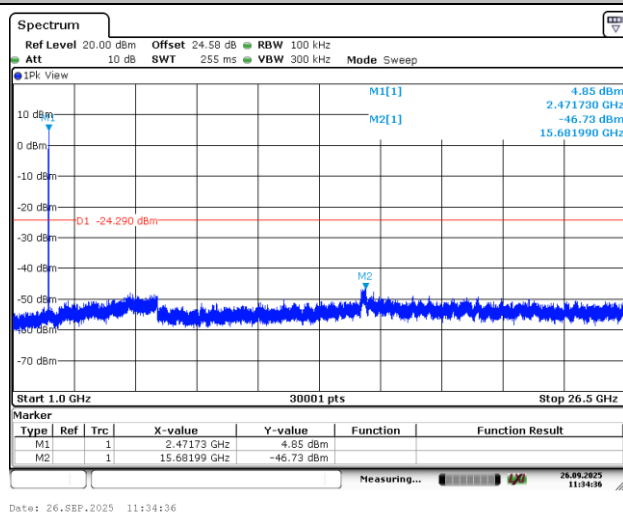
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

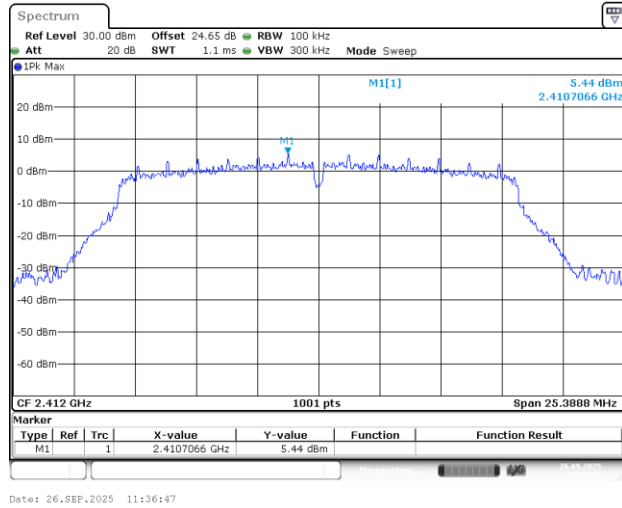




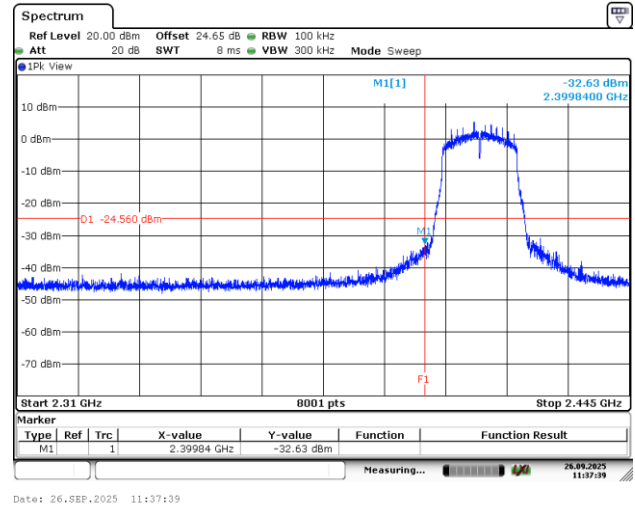
Test Mode : 802.11g

Test Channel : 01

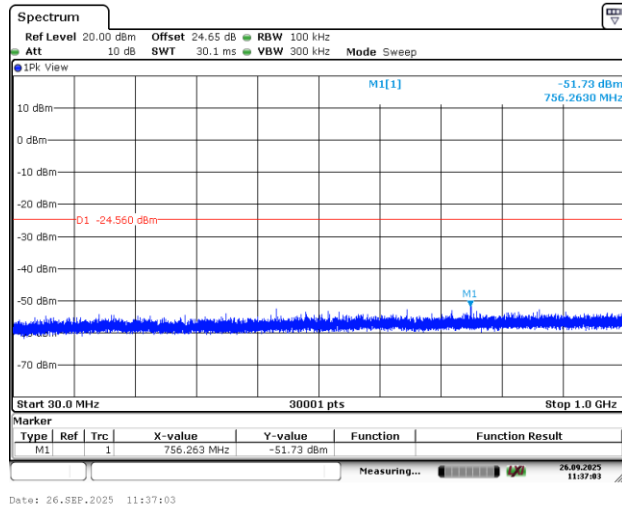
100kHz PSD reference Level



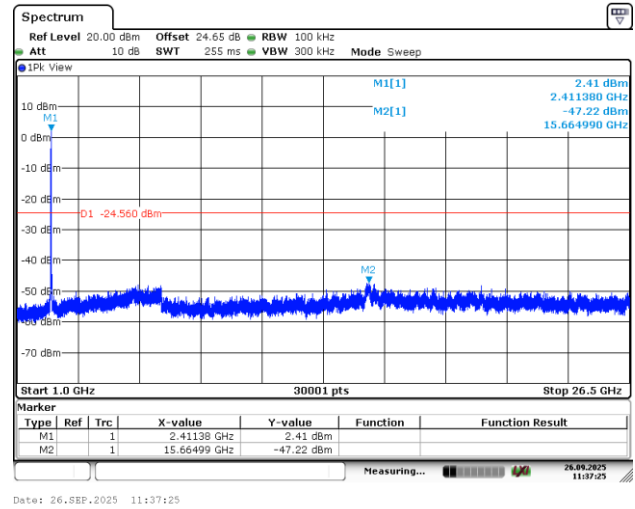
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

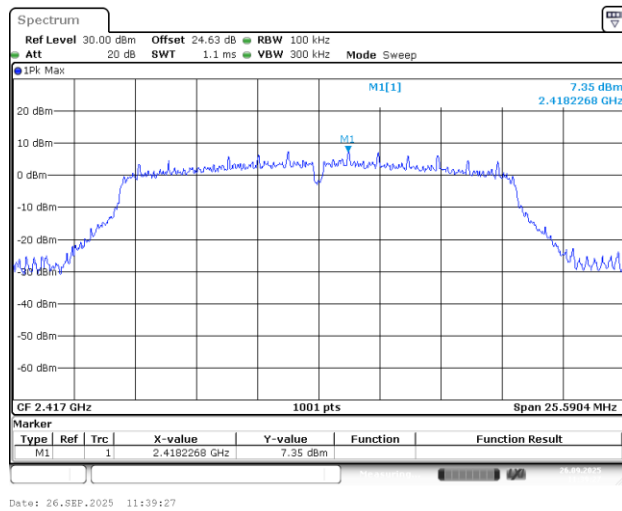




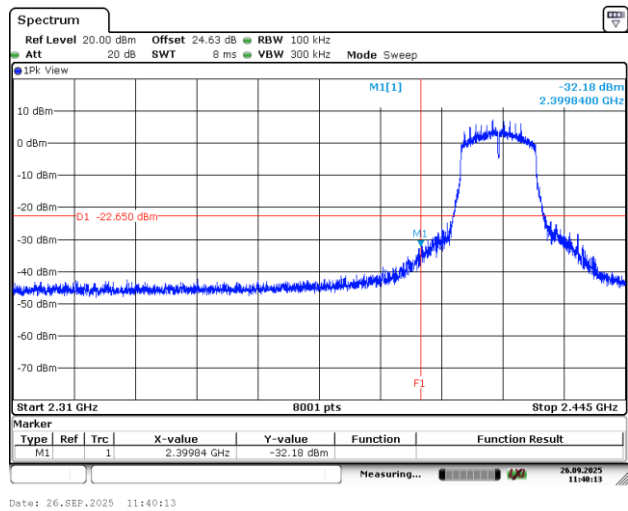
Test Mode : 802.11g

Test Channel : 02

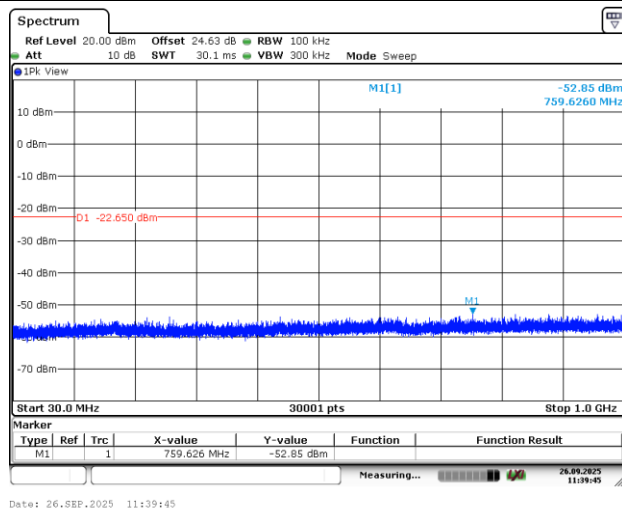
100kHz PSD reference Level



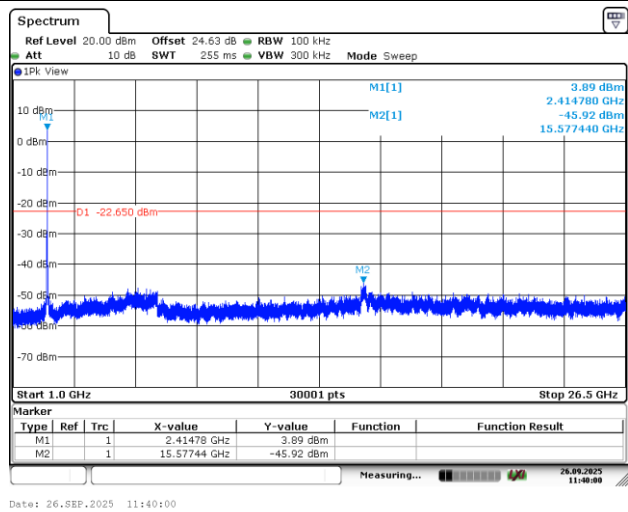
Channel 02 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

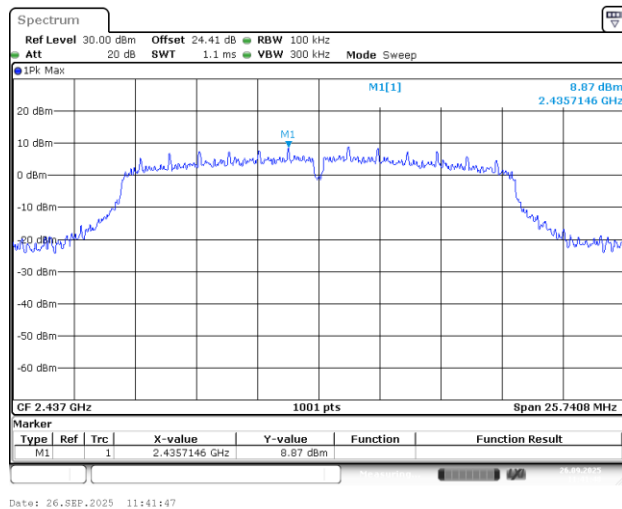




Test Mode : 802.11g

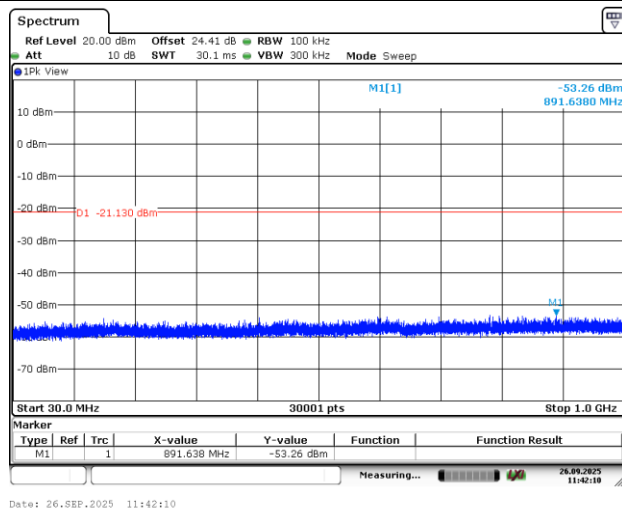
Test Channel : 06

100kHz PSD reference Level

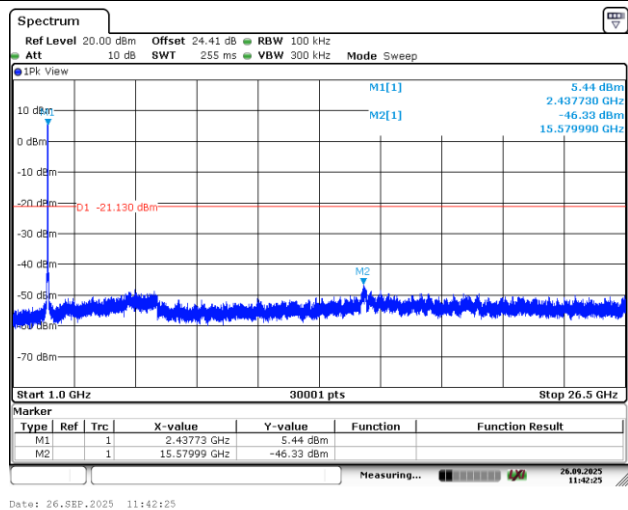


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

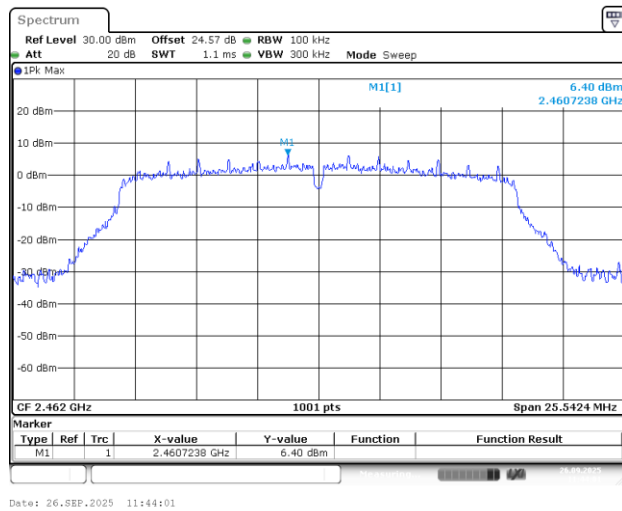




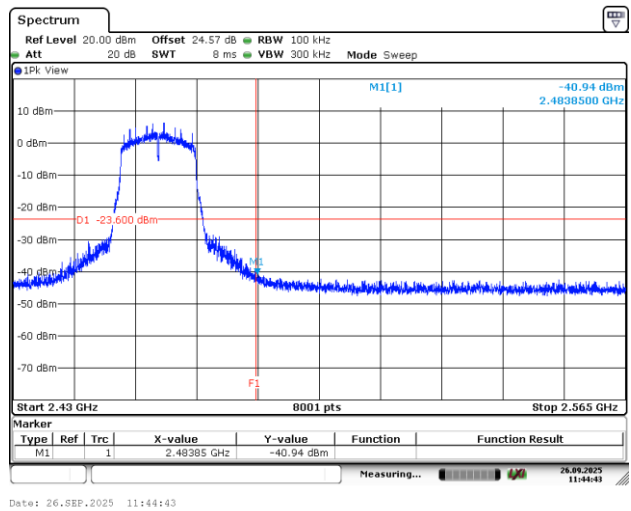
Test Mode : 802.11g

Test Channel : 11

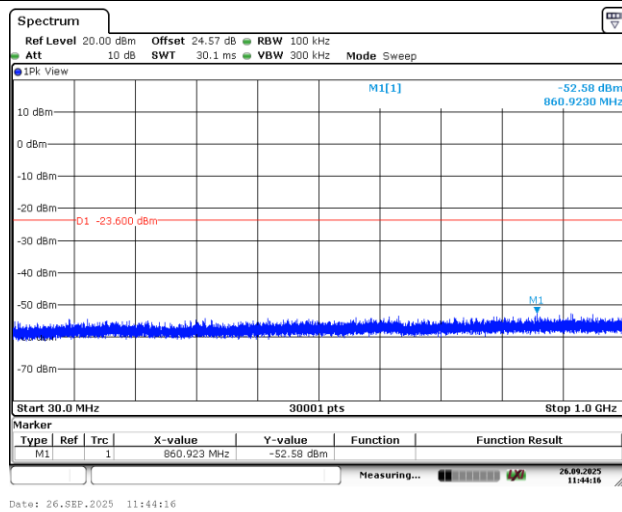
100kHz PSD reference Level



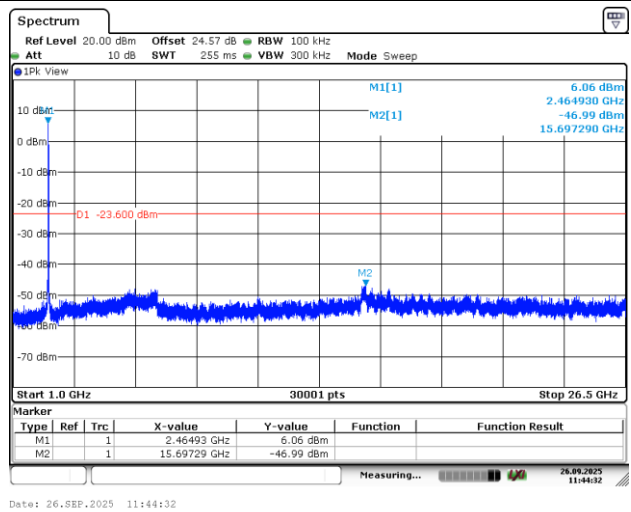
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

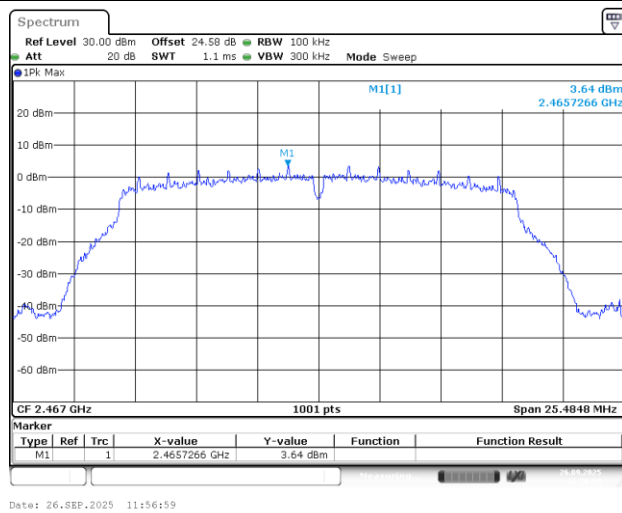




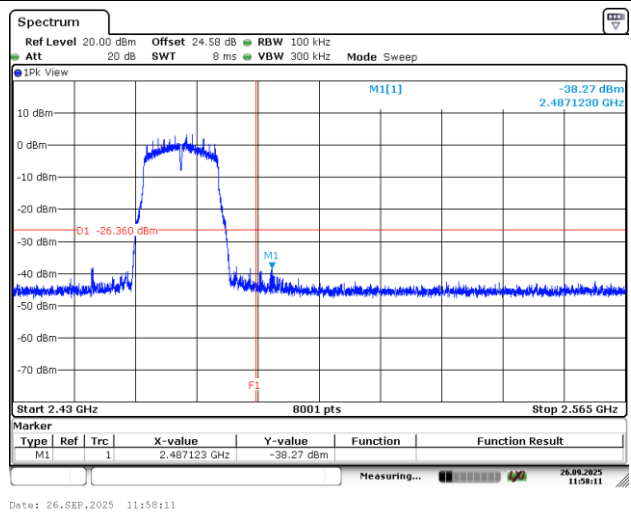
Test Mode : 802.11g

Test Channel : 12

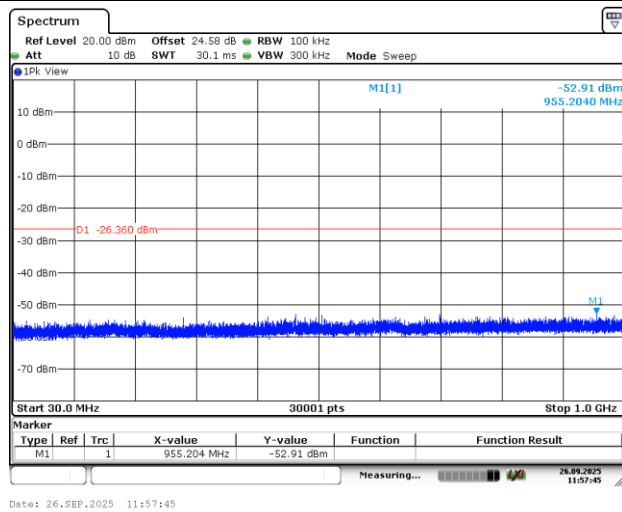
100kHz PSD reference Level



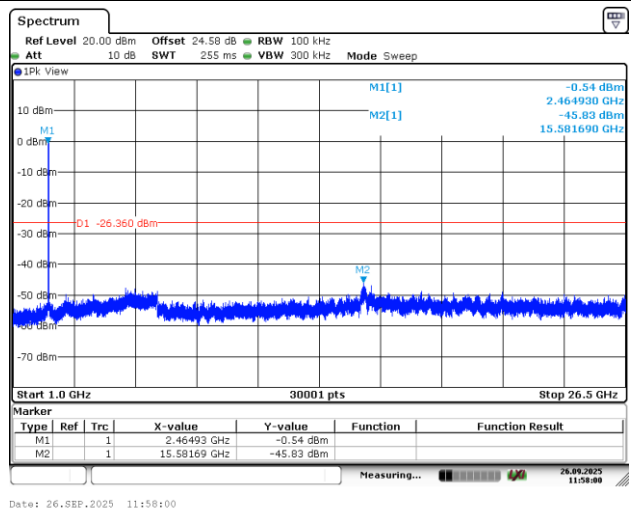
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

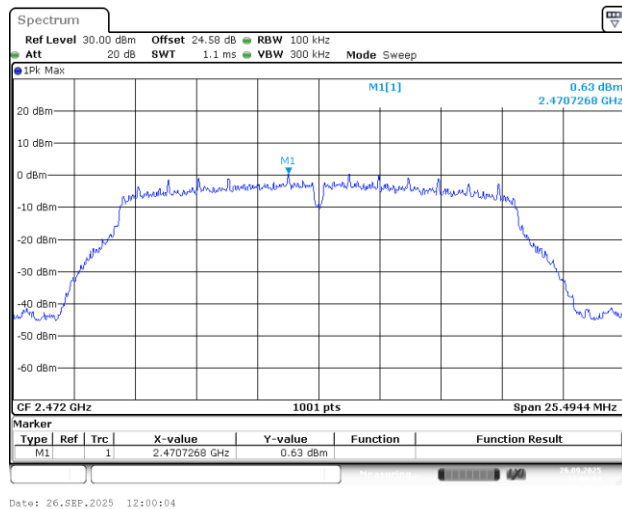




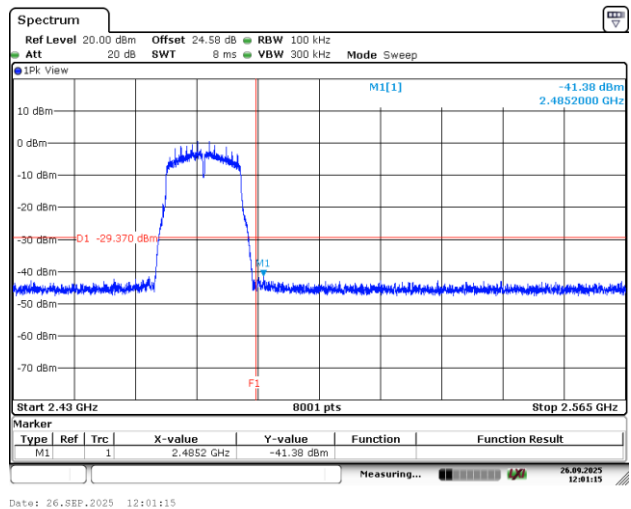
Test Mode : 802.11g

Test Channel : 13

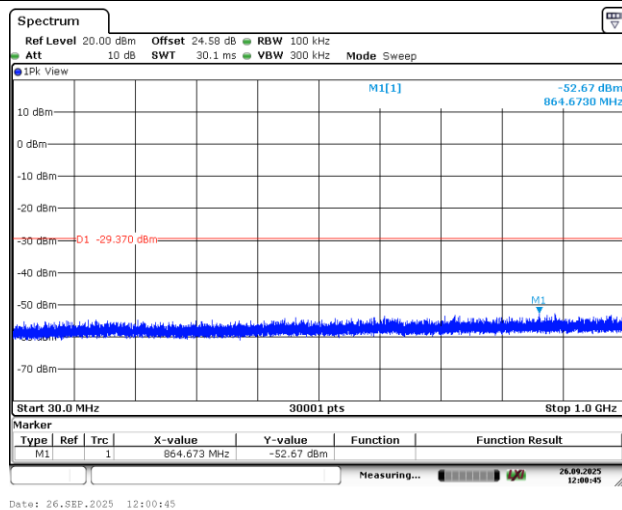
100kHz PSD reference Level



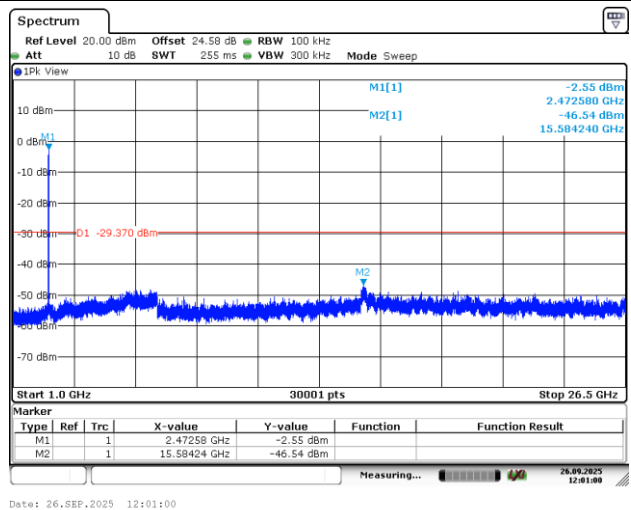
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

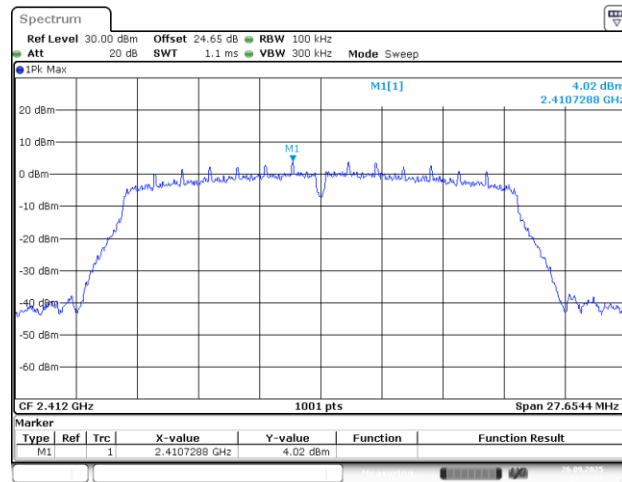




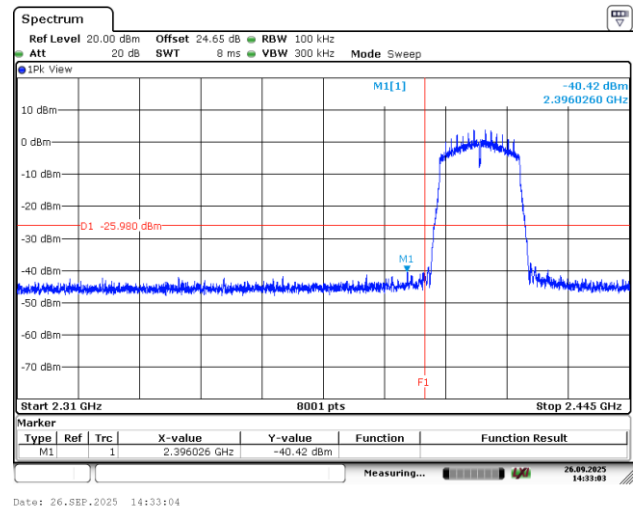
Test Mode : 802.11ac20

Test Channel : 01

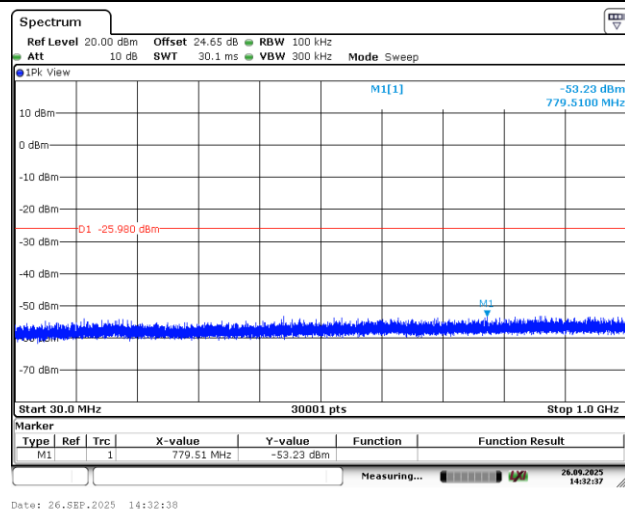
100kHz PSD reference Level



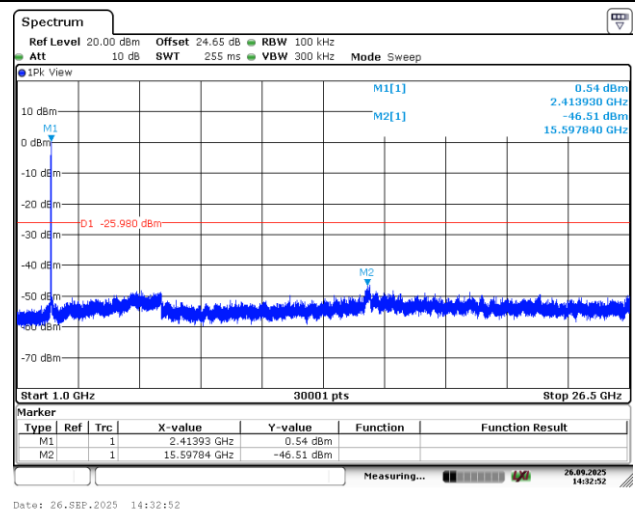
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

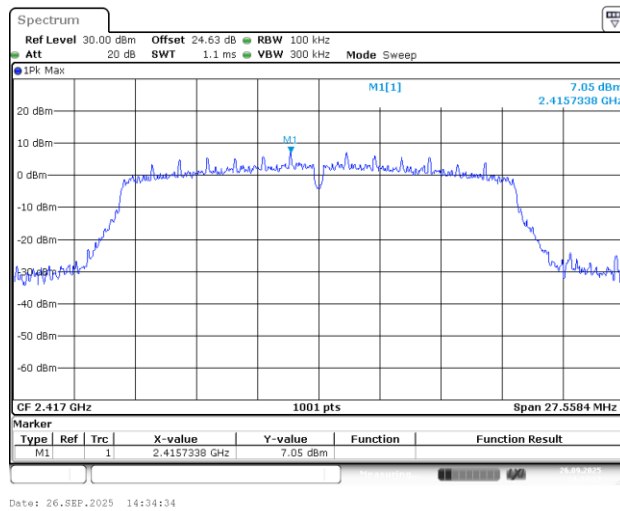




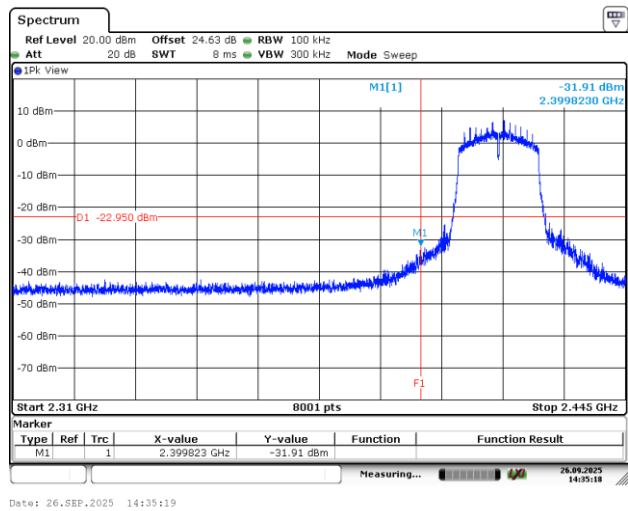
Test Mode : 802.11ac20

Test Channel : 02

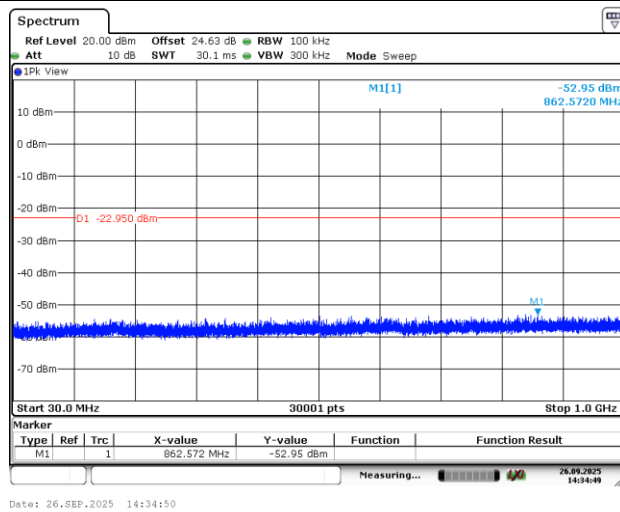
100kHz PSD reference Level



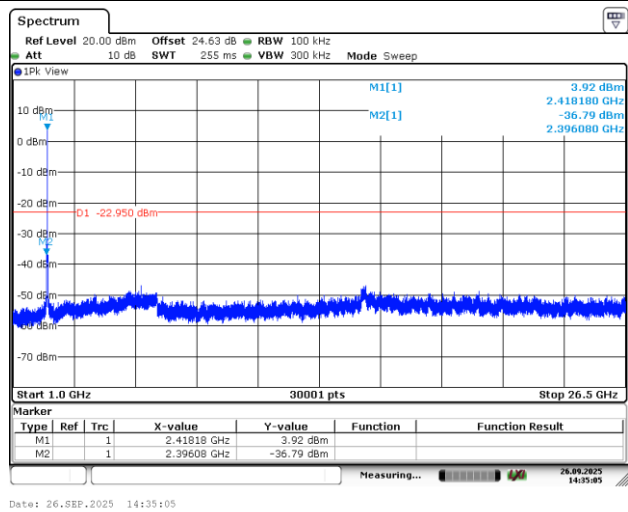
Channel 02 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

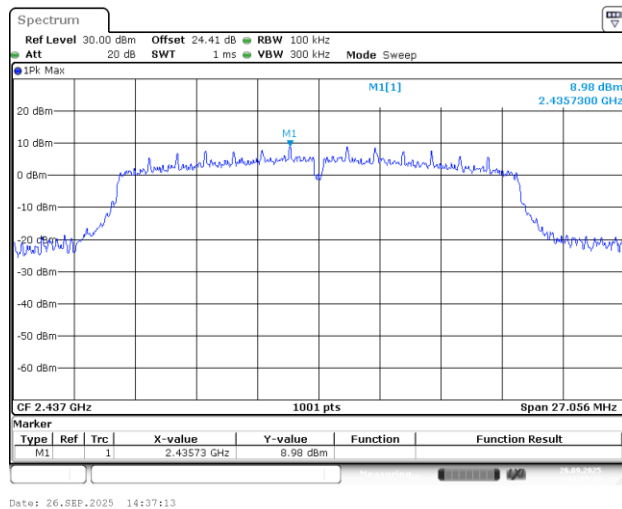




Test Mode : 802.11ac20

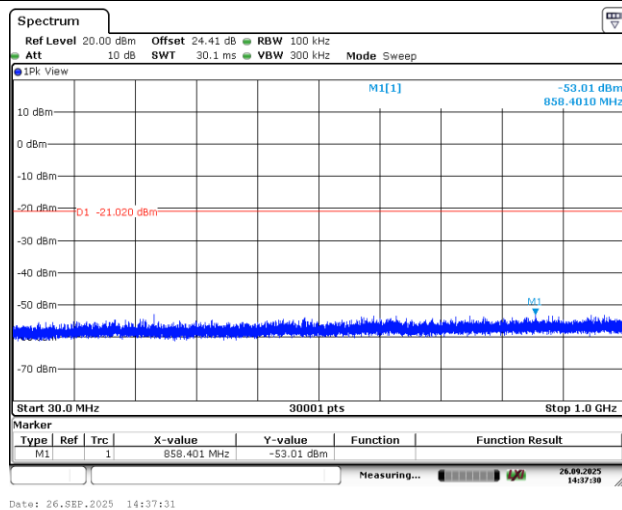
Test Channel : 06

100kHz PSD reference Level

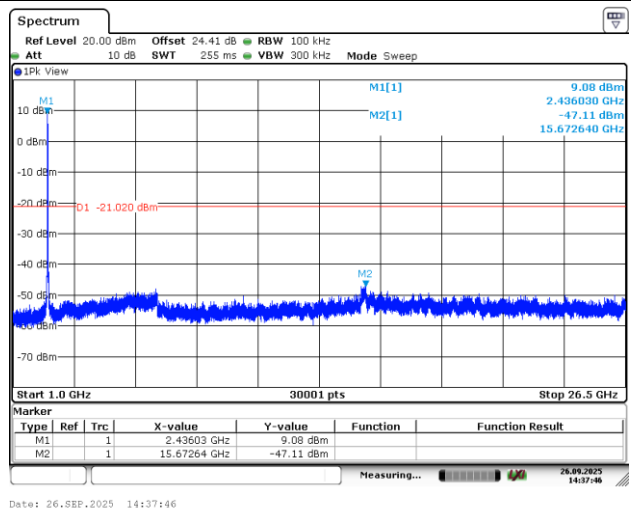


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

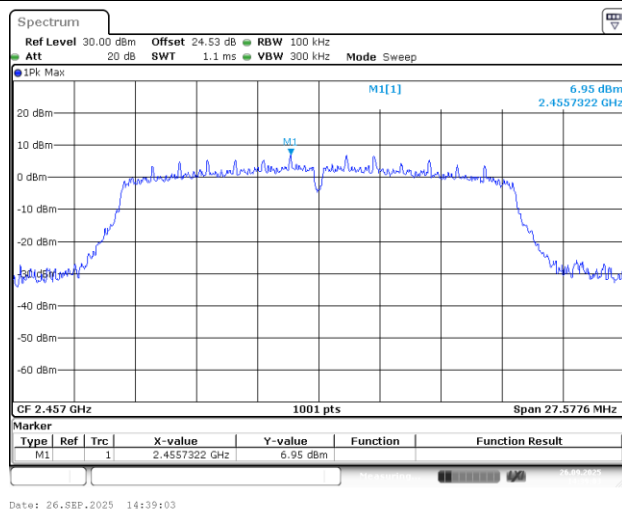




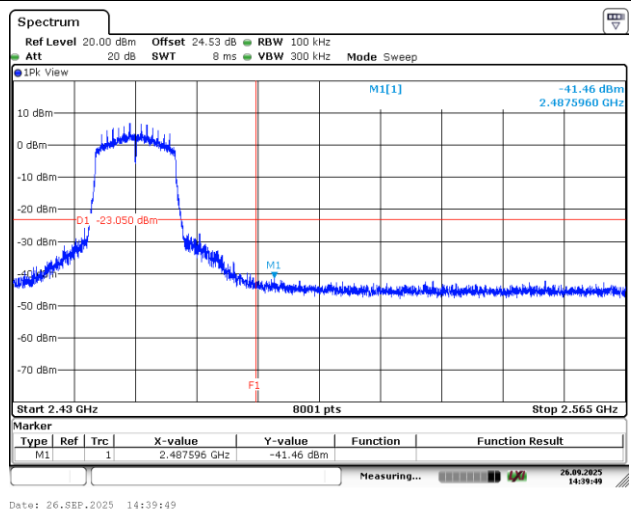
Test Mode : 802.11ac20

Test Channel : 10

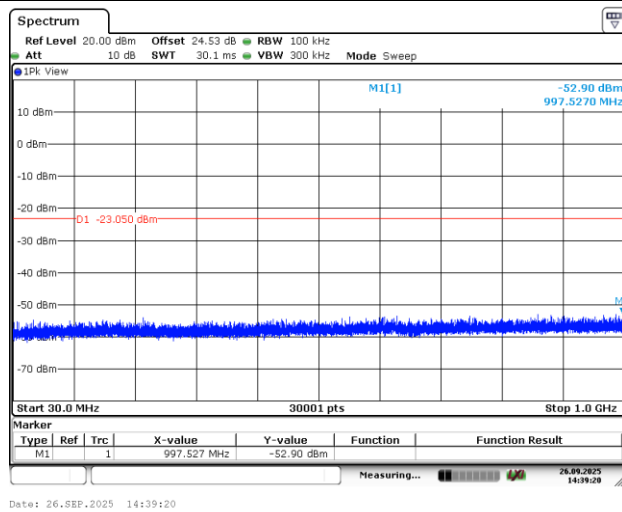
100kHz PSD reference Level



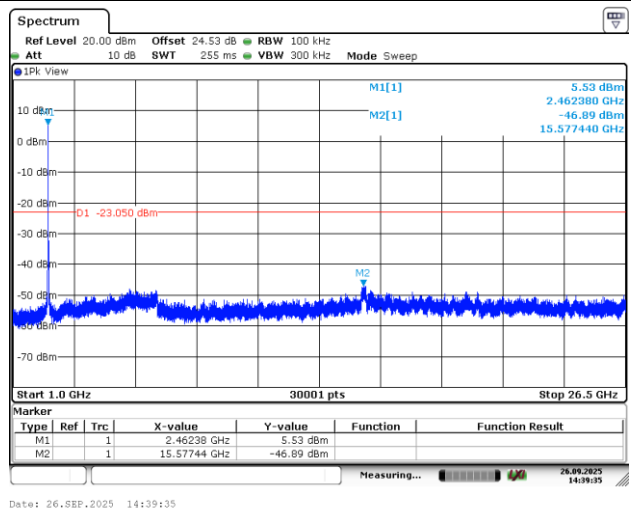
Channel 10 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

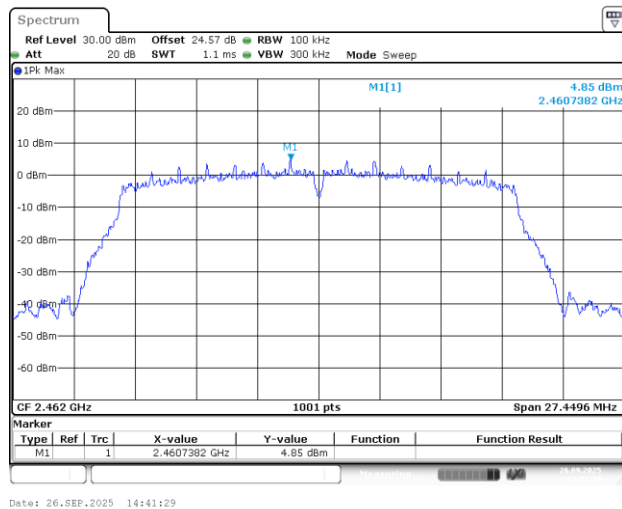




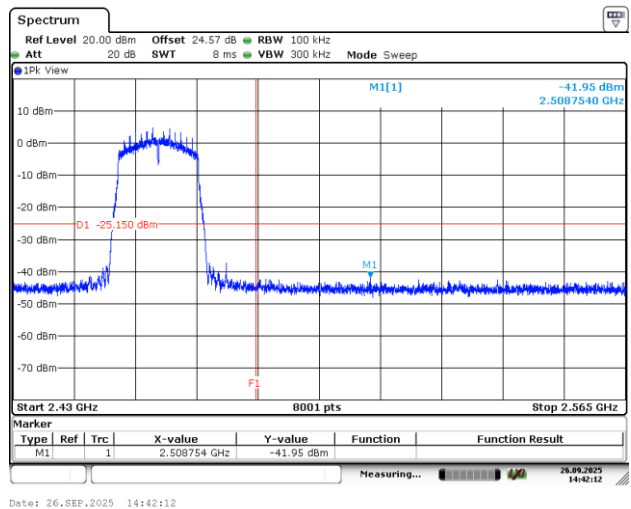
Test Mode : 802.11ac20

Test Channel : 11

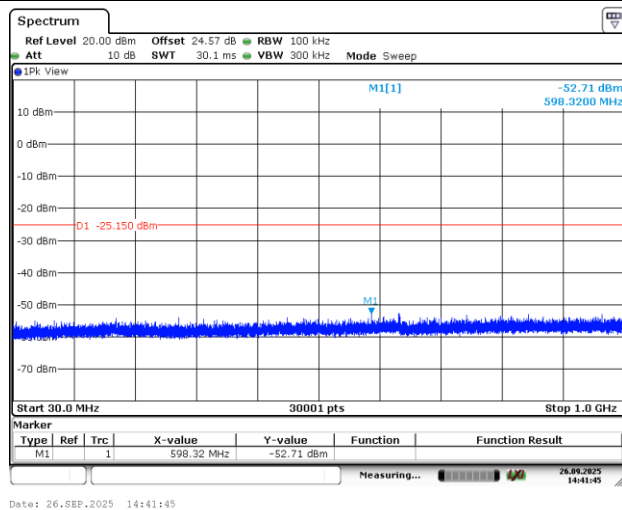
100kHz PSD reference Level



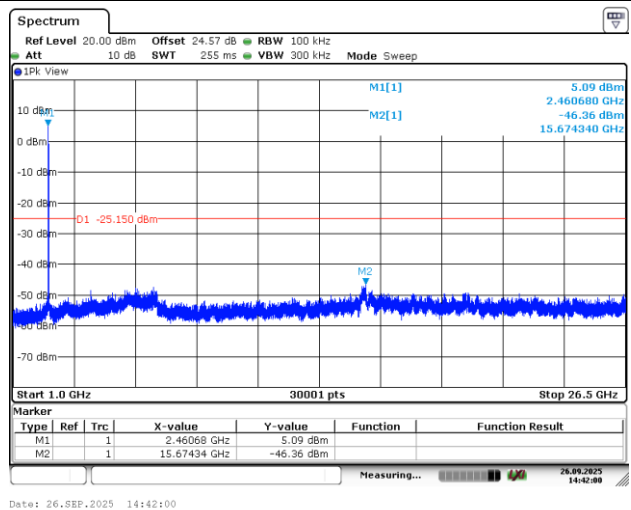
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

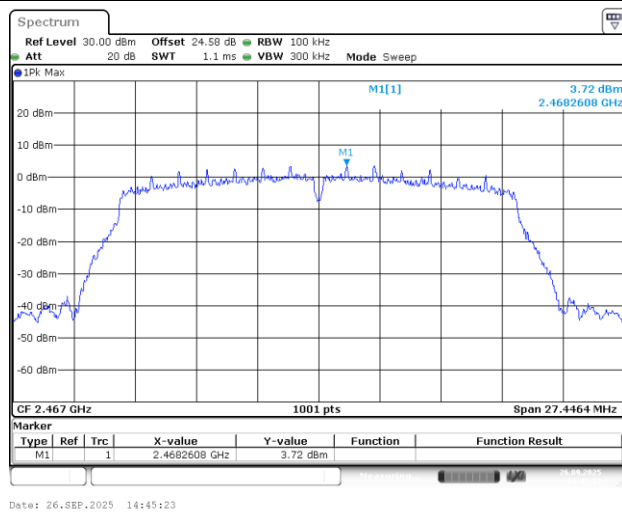




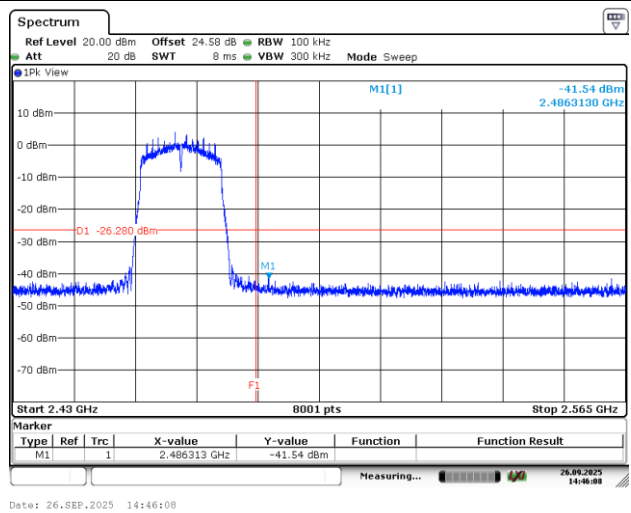
Test Mode : 802.11ac20

Test Channel : 12

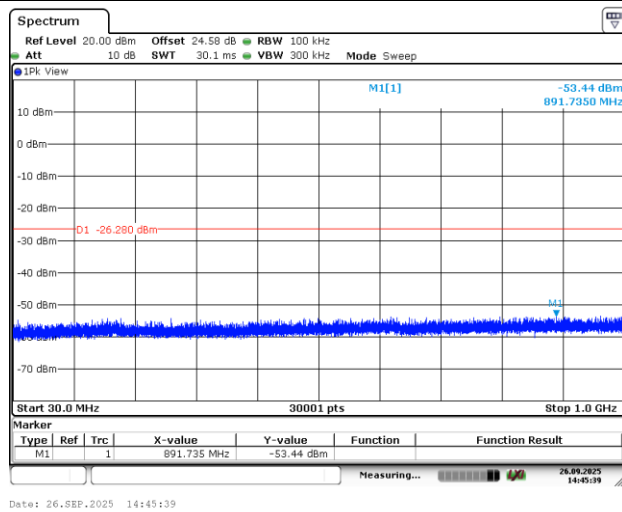
100kHz PSD reference Level



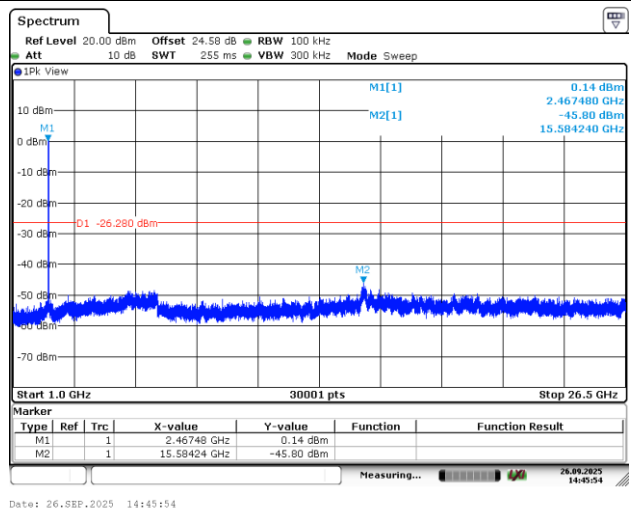
Channel 12 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

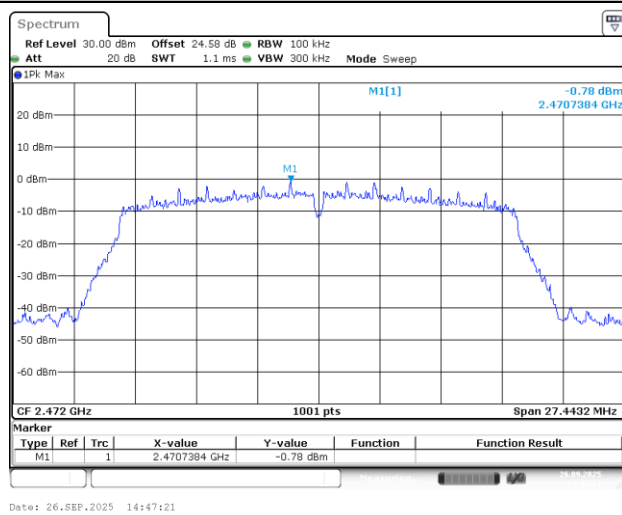




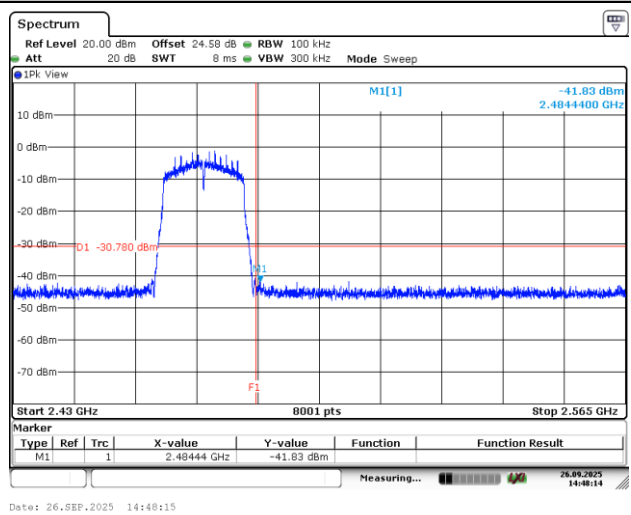
Test Mode : 802.11ac20

Test Channel : 13

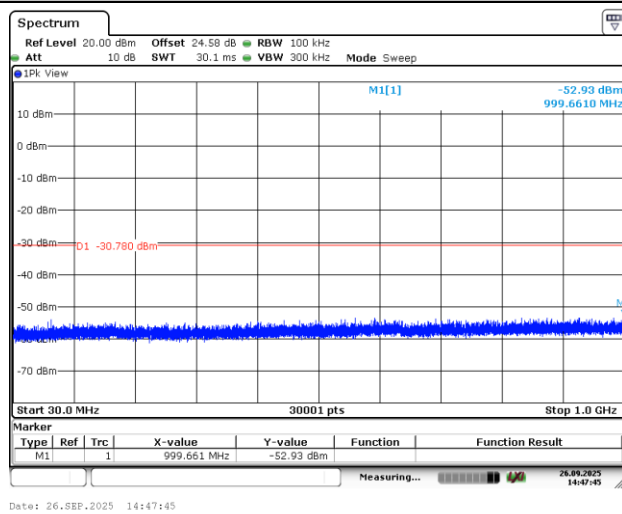
100kHz PSD reference Level



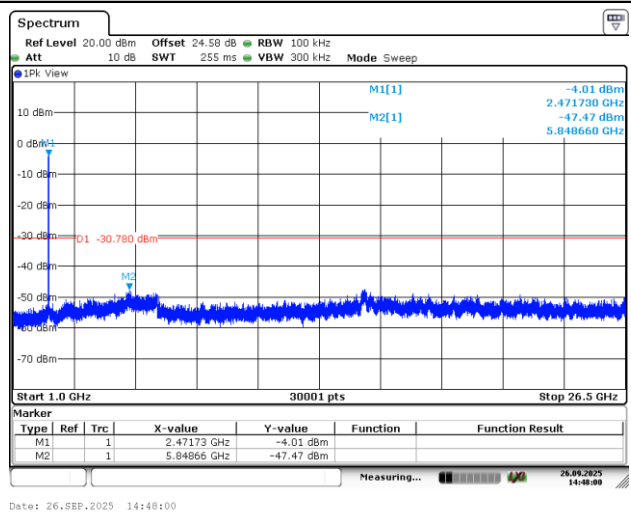
Channel 13 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

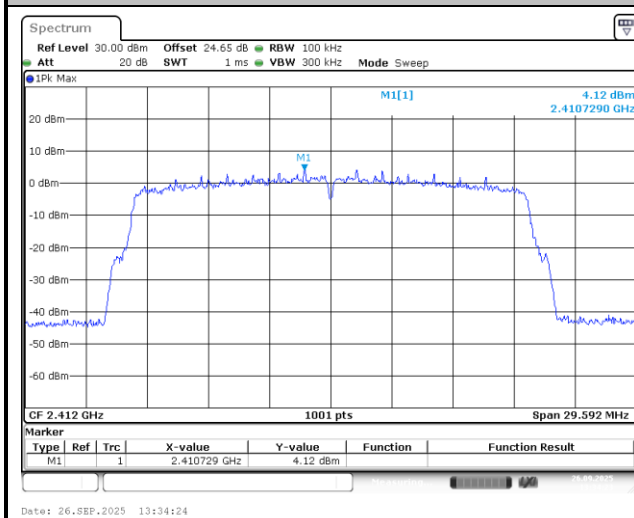




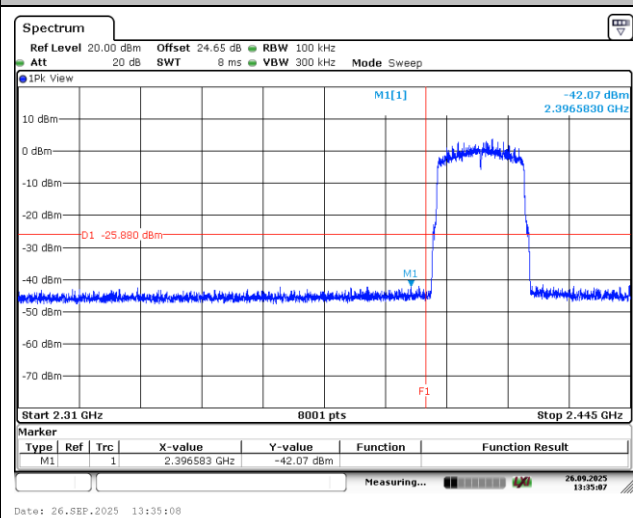
Test Mode : 802.11ax20_FullIRU

Test Channel : 01

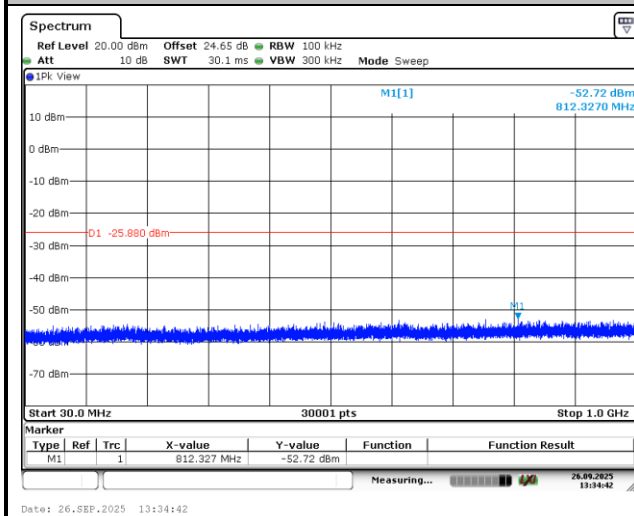
100kHz PSD reference Level



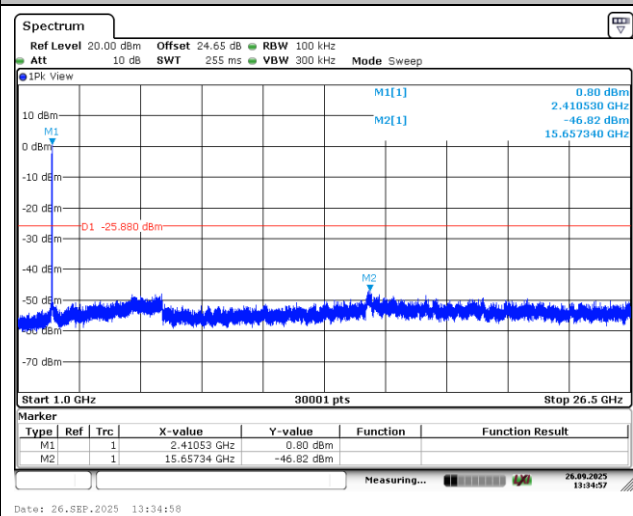
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

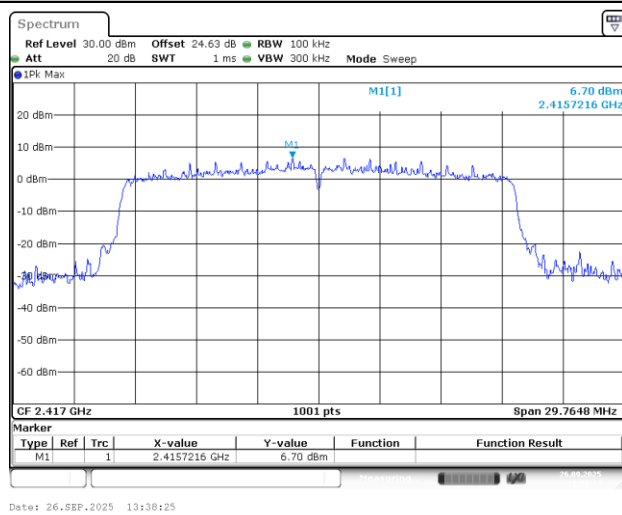




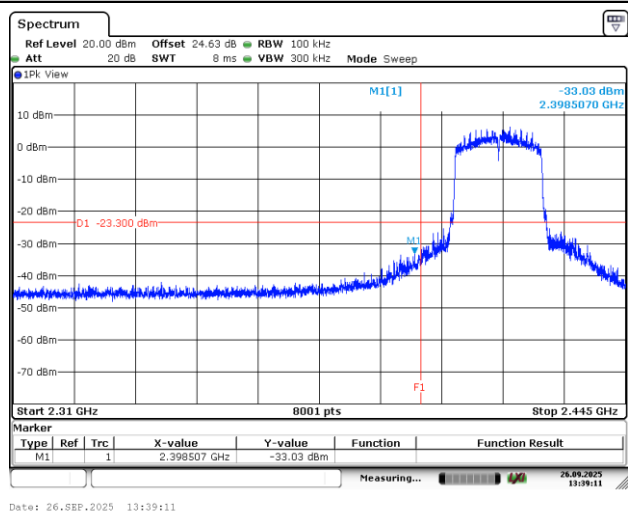
Test Mode : 802.11ax20_FullRU

Test Channel : 02

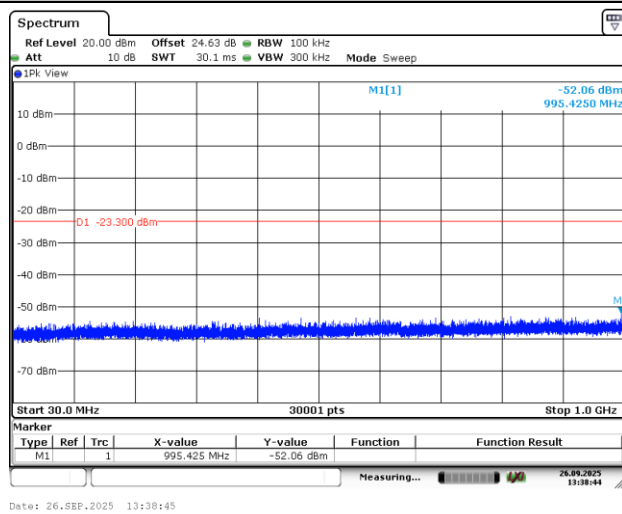
100kHz PSD reference Level



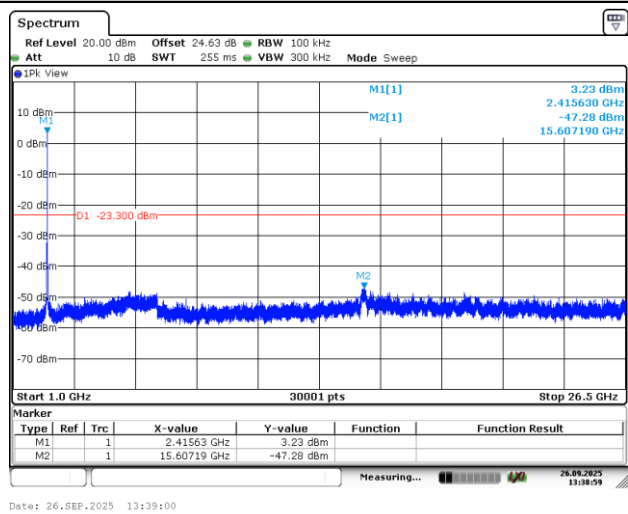
Channel 02 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

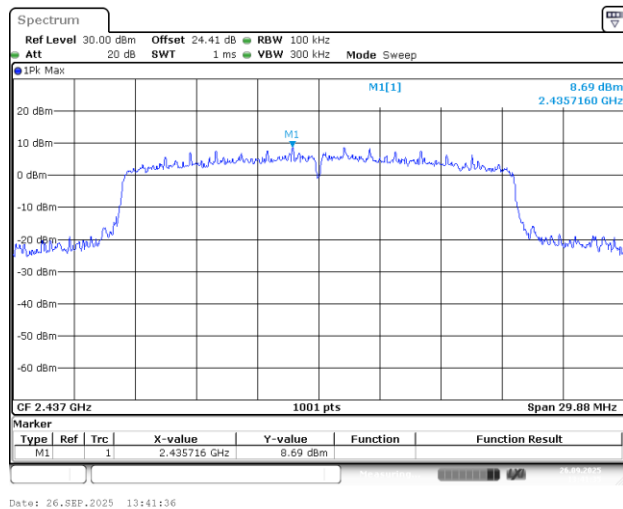




Test Mode : 802.11ax20_FullIRU

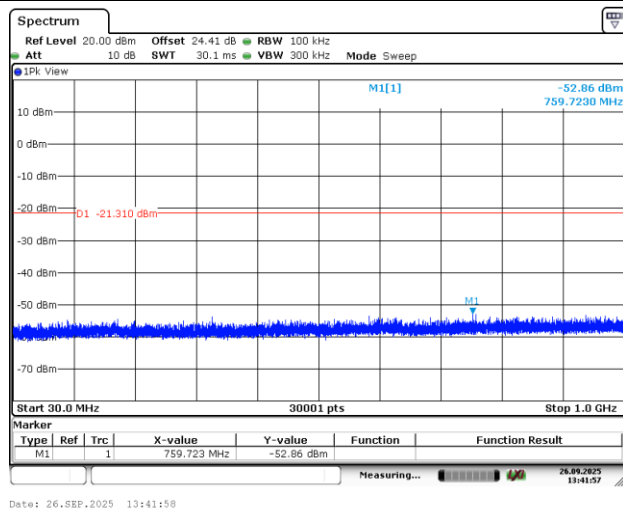
Test Channel : 06

100kHz PSD reference Level



Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

