



FCC RADIO TEST REPORT

FCC ID : 2AEM4-9471214
Equipment : Wireless Router
Brand Name : eero
Model Name : PA10001
Applicant : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Manufacturer : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Standard : FCC PART 15 Subpart C §15.247

The product was received on Sep. 23, 2024 and testing was performed from Oct. 01, 2024 to Nov. 27, 2024. 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
FR492020B	01	Initial issue of report	Dec. 13, 2024

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	0.11 dB under the limit at 2389.38 MHz
3.6	15.207	AC Conducted Emission	Pass	20.80 dB under the limit at 0.17 MHz
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/manufacture 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: Yun Huang

Report Producer: Emma Hsiao



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE, IEEE 802.15.4, Wi-Fi 2.4GHz 802.11b/g/n/ax/be and Wi-Fi 5GHz 802.11a/n/ac/ax/be.		
Antenna Type WLAN: <Ant. 0>: Dipole Antenna <Ant. 1>: Dipole Antenna Bluetooth-LE: Dipole Antenna IEEE 802.15.4: Dipole Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant. 0: 5.41 Ant. 1: 4.79
Antenna information for Directional Gain		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	<2.4G_Ant0 + 2.4G_Ant1 > Correlated: 6.68 Uncorrelated: 3.71

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



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY(TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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

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, 03CH23-HY

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

FCC designation No.: TW1190 and 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.
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

- 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).
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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



2.2 Test Mode

TX power level on Ant. 1 in SISO mode is same as that in MIMO mode, so measurement in MIMO mode is sufficient to cover its SISO mode. Test has been performed on MIMO mode, and SISO mode on Ant. 0.

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

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

Single Mode

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0

MIMO Mode

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11ax HE40 (Covered by EHT40)	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1. : WLAN (2.4GHz) Link + Adapter (Luxshare_45W type A)

<Ant. 0>

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
	-	02	02	-
	-	03	-	-
Middle	06	06	06	06
High	-	-	-	09
	11	11	11	-

Ch. #	2400-2483.5 MHz		
	802.11ax HE20	802.11be EHT20	802.11be EHT40
Low	01	01	03
	-	02	-
Middle	06	06	06
High	11	-	09
	-	11	-

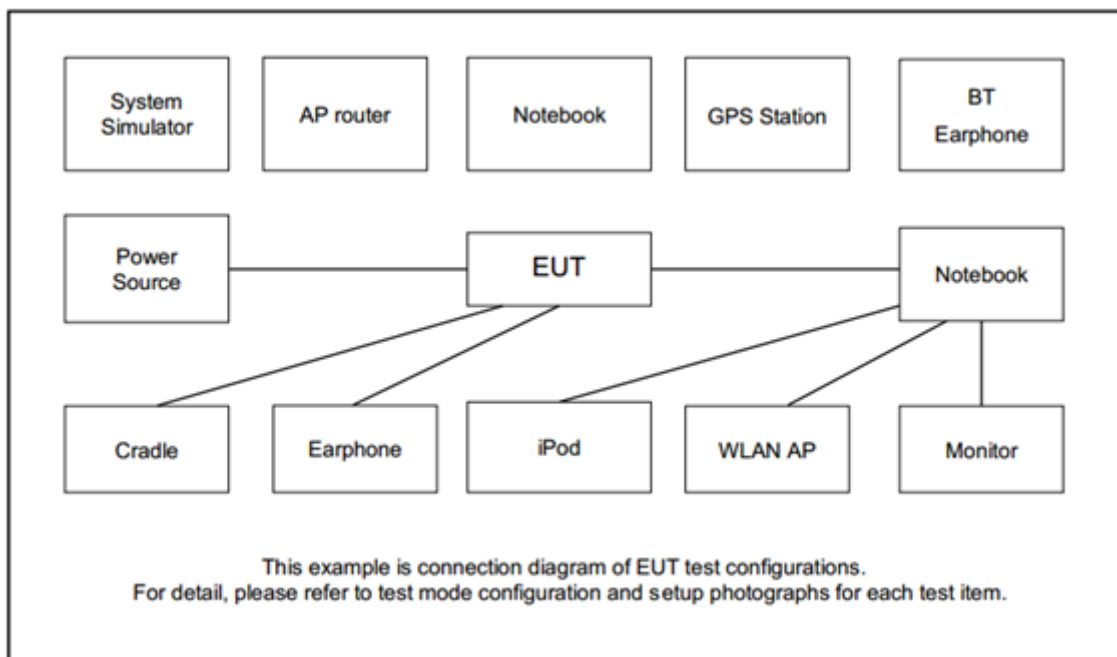
**MIMO <Ant. 0+1>**

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
Low	01	01	01	03
	-	02	02	-
	-	03	-	-
	-	06	-	-
Middle	06	09	06	06
	-	10	10	-
High	11	11	11	09

Ch. #	2400-2483.5 MHz		
	802.11ax HE20	802.11be EHT20	802.11be EHT40
Low	01	01	03
	-	02	-
	-	03	-
Middle	06	06	06
High	-	10	09
	-	-	-
	11	11	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
2.	PC	msi	PRO DP1 80A7	FCC DoC	N/A	UnShielded, 1.8m
3.	PC	msi	Aegis-B918	FCC DoC	N/A	UnShielded, 1.8m
4.	Button	SmartThings	IM6001-BTP01	2AF4S-IM6001-BTP01	N/A	N/A

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.



2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 6.00.00156.1” 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.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

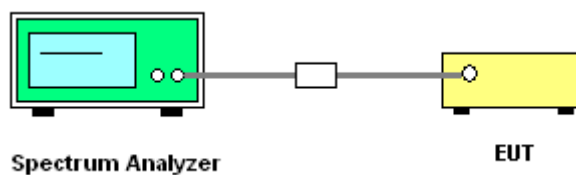
3.1.2 Measuring Instruments

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) $\geq 3 * RBW$.
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 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.

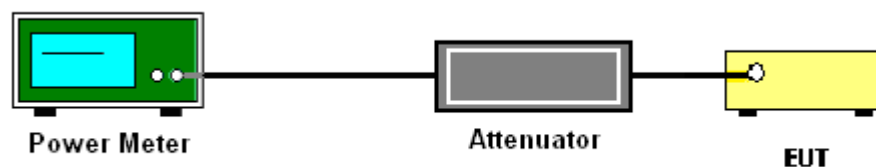
3.2.2 Measuring Instruments

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

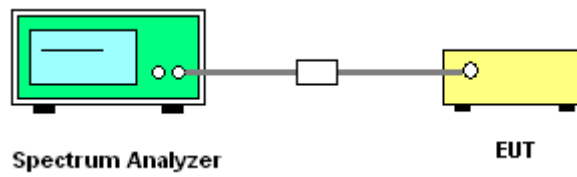
Method AVGPSD-2

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVGPSD-2.
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) = 10 kHz. Video bandwidth VBW = 30 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW).
5. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins).
6. Detector = RMS, Sweep time = auto couple.
7. Trace average at least 100 traces in power averaging mode.
8. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.
9. Measure and record the results in the test report.
10. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ 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 $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ 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.

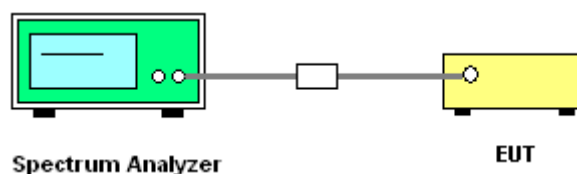
3.4.2 Measuring Instruments

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

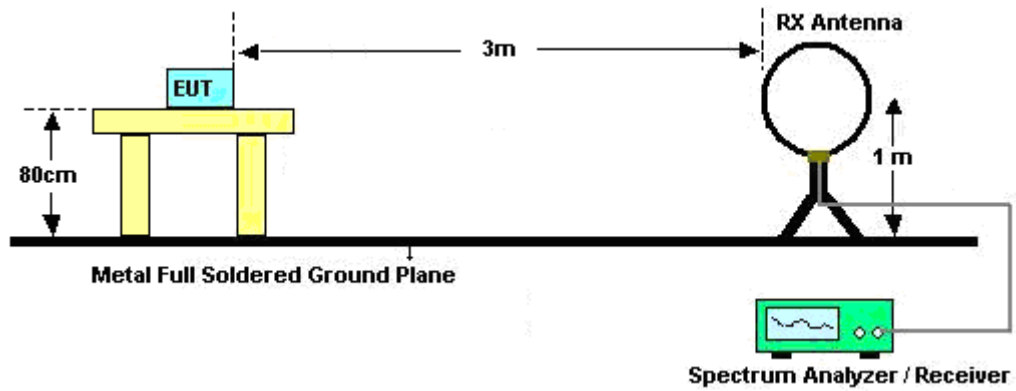
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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:
 - For average measurement:
The procedure for method trace averaging is as follows:
 - a) RBW = 1 MHz.
 - b) VBW $\geq [3 \times \text{RBW}]$.
 - c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - e) Sweep time = auto.



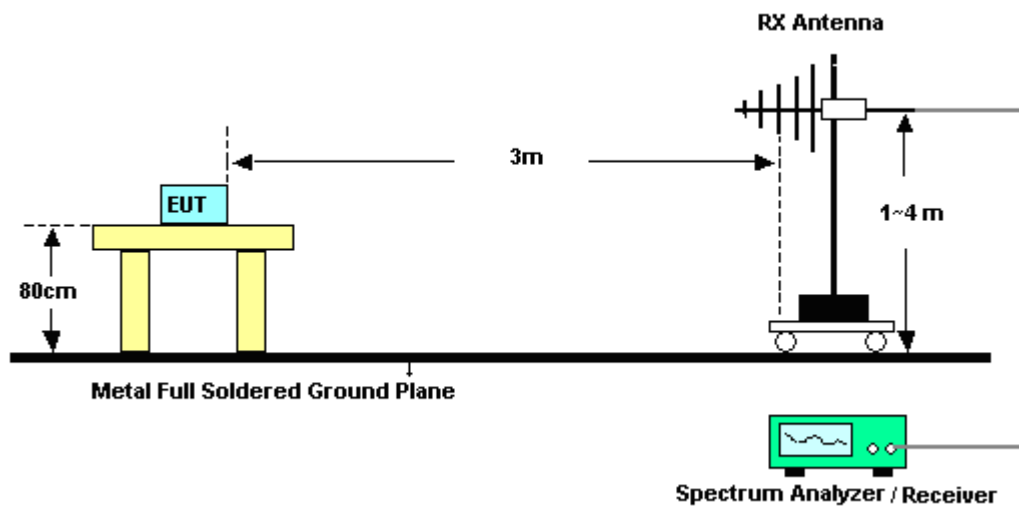
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - i. If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - ii. If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

3.5.4 Test Setup

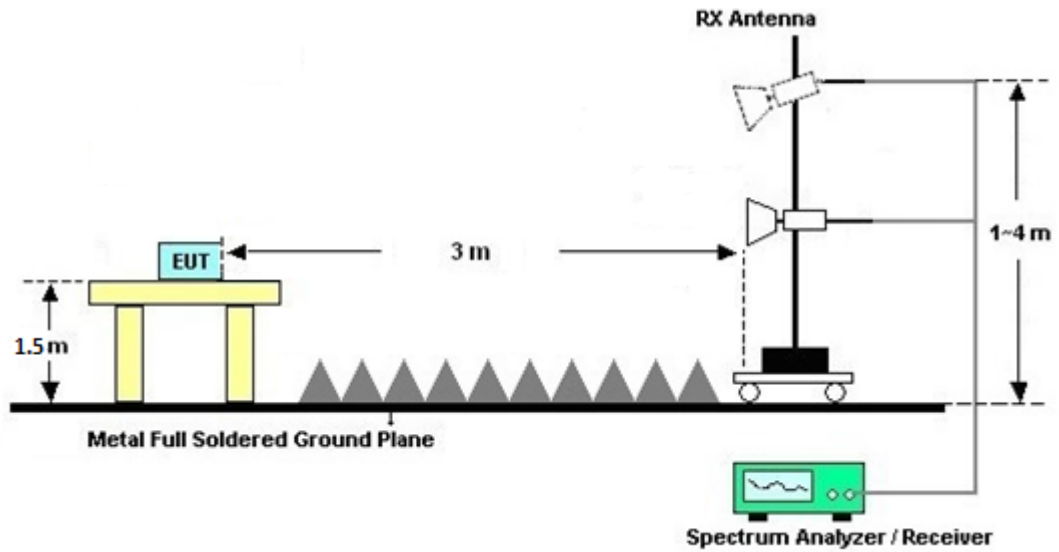
For radiated emissions below 30MHz



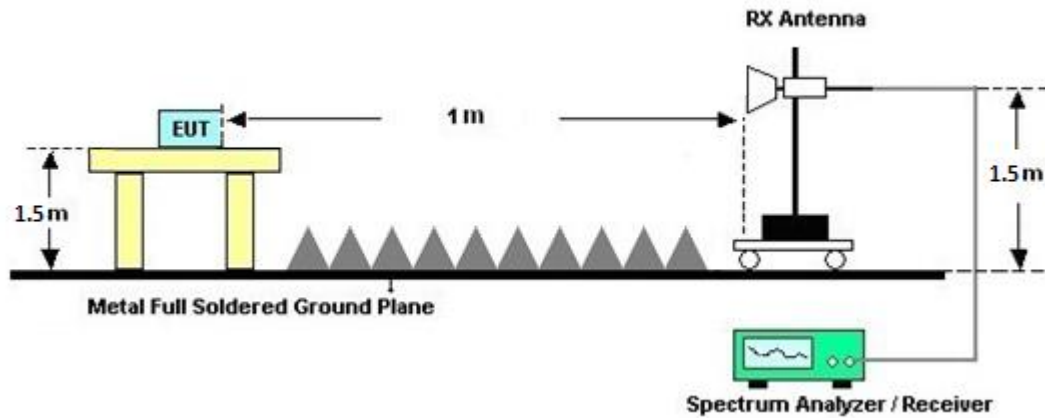
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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 (30 MHz ~ 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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

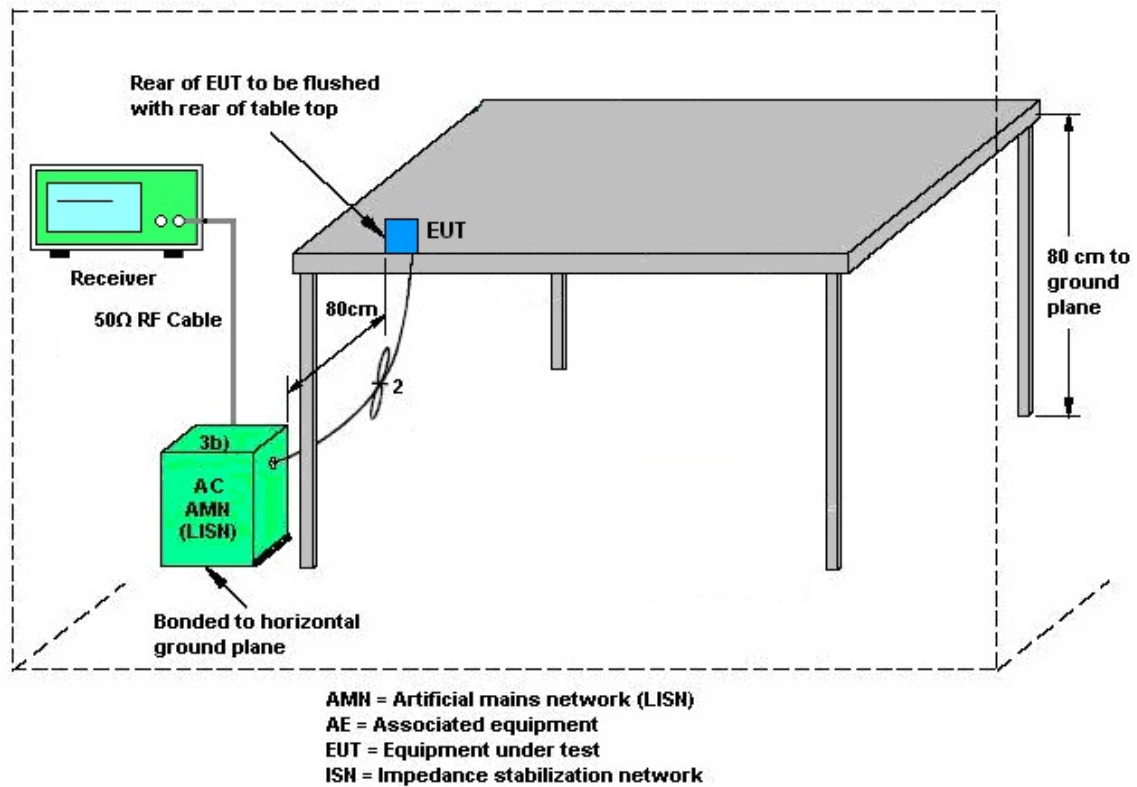
3.6.2 Measuring Instruments

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 = 9 kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

Unique (non-standard) antenna 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	9 kHz~30 MHz	Aug. 29, 2024	Nov. 14, 2024~ Nov. 27, 2024	Aug. 28, 2025	Radiation (03CH23-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz~1GHz	Oct. 05, 2024	Nov. 14, 2024~ Nov. 27, 2024	Oct. 04, 2025	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421580	9kHz~1GHz	Jul. 14, 2024	Nov. 14, 2024~ Nov. 27, 2024	Jul. 13, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Nov. 14, 2024~ Nov. 27, 2024	Sep. 26, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18EN	1GHz~18GHz	Jun. 20, 2024	Nov. 14, 2024~ Nov. 27, 2024	Jun. 19, 2025	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Nov. 14, 2024~ Nov. 27, 2024	Jun. 23, 2025	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Nov. 14, 2024~ Nov. 27, 2024	Sep. 01, 2025	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Aug. 21, 2024	Nov. 14, 2024~ Nov. 27, 2024	Aug. 20, 2025	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303A	TP210001	N/A	Oct. 24, 2024	Nov. 14, 2024~ Nov. 27, 2024	Oct. 23, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 14, 2024~ Nov. 27, 2024	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 14, 2024~ Nov. 27, 2024	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 14, 2024~ Nov. 27, 2024	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002348	N/A	N/A	Nov. 14, 2024~ Nov. 27, 2024	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Nov. 14, 2024~ Nov. 27, 2024	Mar. 05, 2025	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 27, 2023	Nov. 14, 2024~ Nov. 25, 2024	Nov. 26, 2024	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 26, 2024	Nov. 26, 2024~ Nov. 27, 2024	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119 /231122	N/A	Nov. 27, 2023	Nov. 14, 2024~ Nov. 25, 2024	Nov. 26, 2024	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119 /231122	N/A	Nov. 26, 2024	Nov. 26, 2024~ Nov. 27, 2024	Nov. 25, 2025	Radiation (03CH23-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 07, 2023	Oct. 01, 2024~ Oct. 31, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 01, 2024	Nov. 01, 2024~ Nov. 25, 2024	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Oct. 01, 2024~ Nov. 25, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Oct. 01, 2024~ Nov. 25, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300485 (BOX4)	N/A	Apr. 08, 2024	Oct. 01, 2024~ Nov. 25, 2024	Apr. 07, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_241028	N/A	Conducted Other Test Item	N/A	Oct. 01, 2024~ Nov. 25, 2024	N/A	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 25, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Nov. 25, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 14, 2024	Nov. 25, 2024	Oct. 13, 2025	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 14, 2024	Nov. 25, 2024	Nov. 13, 2025	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Nov. 25, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Nov. 25, 2024	Jul. 29, 2025	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 15, 2024	Nov. 25, 2024	Oct. 14, 2025	Conduction (CO05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2024/10/1~2024/11/25	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	13.07	-	7.10	-	0.50	Pass
11b	1Mbps	1	6	2437	13.12	-	7.12	-	0.50	Pass
11b	1Mbps	1	11	2462	13.08	-	8.01	-	0.50	Pass
11g	6Mbps	1	1	2412	16.99	-	15.12	-	0.50	Pass
11g	6Mbps	1	2	2417	16.97	-	15.07	-	0.50	Pass
11g	6Mbps	1	3	2422	16.96	-	15.07	-	0.50	Pass
11g	6Mbps	1	6	2437	17.15	-	15.09	-	0.50	Pass
11g	6Mbps	1	11	2462	17.00	-	15.10	-	0.50	Pass
HT20	MCS0	1	1	2412	17.97	-	15.10	-	0.50	Pass
HT20	MCS0	1	2	2417	17.98	-	15.10	-	0.50	Pass
HT20	MCS0	1	6	2437	17.98	-	15.07	-	0.50	Pass
HT20	MCS0	1	11	2462	17.99	-	15.04	-	0.50	Pass
HT40	MCS0	1	3	2422	37.01	-	32.57	-	0.50	Pass
HT40	MCS0	1	6	2437	37.01	-	35.01	-	0.50	Pass
HT40	MCS0	1	9	2452	37.00	-	35.08	-	0.50	Pass

2.4GHz Band MIMO										
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	2	1	2412	13.19	13.44	8.08	7.55	0.50	Pass
11b	1Mbps	2	6	2437	13.12	13.29	7.59	8.02	0.50	Pass
11b	1Mbps	2	11	2462	13.18	13.25	7.58	8.03	0.50	Pass
11g	6Mbps	2	1	2412	17.06	16.93	15.10	15.06	0.50	Pass
11g	6Mbps	2	6	2437	17.04	16.89	15.08	15.12	0.50	Pass
11g	6Mbps	2	11	2462	17.11	16.89	15.08	15.07	0.50	Pass
HT20	MCS0	2	1	2412	18.02	17.83	15.12	15.63	0.50	Pass
HT20	MCS0	2	6	2437	18.02	17.86	15.96	16.89	0.50	Pass
HT20	MCS0	2	11	2462	18.06	17.84	15.02	15.08	0.50	Pass
HT40	MCS0	2	3	2422	36.84	36.99	35.01	35.43	0.50	Pass
HT40	MCS0	2	6	2437	37.07	36.83	33.76	34.20	0.50	Pass
HT40	MCS0	2	9	2452	37.10	36.74	35.03	32.45	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	23.10	-		30.00	-	5.41	-	28.51	-	36.00	-	Pass
11b	1Mbps	1	6	2437	24.20	-		30.00	-	5.41	-	29.61	-	36.00	-	Pass
11b	1Mbps	1	11	2462	24.10	-		30.00	-	5.41	-	29.51	-	36.00	-	Pass
11g	6Mbps	1	1	2412	19.10	-		30.00	-	5.41	-	24.51	-	36.00	-	Pass
11g	6Mbps	1	2	2417	19.20	-		30.00	-	5.41	-	24.61	-	36.00	-	Pass
11g	6Mbps	1	3	2422	20.70	-		30.00	-	5.41	-	26.11	-	36.00	-	Pass
11g	6Mbps	1	6	2437	23.00	-		30.00	-	5.41	-	28.41	-	36.00	-	Pass
11g	6Mbps	1	11	2462	20.00	-		30.00	-	5.41	-	25.41	-	36.00	-	Pass
HT20	MCS0	1	1	2412	18.60	-		30.00	-	5.41	-	24.01	-	36.00	-	Pass
HT20	MCS0	1	2	2417	19.10	-		30.00	-	5.41	-	24.51	-	36.00	-	Pass
HT20	MCS0	1	6	2437	22.10	-		30.00	-	5.41	-	27.51	-	36.00	-	Pass
HT20	MCS0	1	11	2462	19.10	-		30.00	-	5.41	-	24.51	-	36.00	-	Pass
HT40	MCS0	1	3	2422	16.40	-		30.00	-	5.41	-	21.81	-	36.00	-	Pass
HT40	MCS0	1	6	2437	17.90	-		30.00	-	5.41	-	23.31	-	36.00	-	Pass
HT40	MCS0	1	9	2452	17.30	-		30.00	-	5.41	-	22.71	-	36.00	-	Pass

2.4GHz Band MIMO																
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	2	1	2412	21.30	21.50	24.41	30.00		3.71		28.12		36.00		Pass
11b	1Mbps	2	6	2437	24.00	23.50	26.77	30.00		3.71		30.48		36.00		Pass
11b	1Mbps	2	11	2462	21.20	21.30	24.26	30.00		3.71		27.97		36.00		Pass
11g	6Mbps	2	1	2412	17.10	17.50	20.31	30.00		3.71		24.02		36.00		Pass
11g	6Mbps	2	2	2417	17.60	17.90	20.76	30.00		3.71		24.47		36.00		Pass
11g	6Mbps	2	3	2422	19.40	19.70	22.56	30.00		3.71		26.27		36.00		Pass
11g	6Mbps	2	6	2437	21.50	21.60	24.56	30.00		3.71		28.27		36.00		Pass
11g	6Mbps	2	9	2452	19.30	19.30	22.31	30.00		3.71		26.02		36.00		Pass
11g	6Mbps	2	10	2457	17.50	18.00	20.77	30.00		3.71		24.48		36.00		Pass
11g	6Mbps	2	11	2462	16.60	17.00	19.81	30.00		3.71		23.52		36.00		Pass
HT20	MCS0	2	1	2412	16.70	17.20	19.97	30.00		3.71		23.68		36.00		Pass
HT20	MCS0	2	2	2417	17.80	18.30	21.07	30.00		3.71		24.78		36.00		Pass
HT20	MCS0	2	6	2437	20.80	21.30	24.07	30.00		3.71		27.78		36.00		Pass
HT20	MCS0	2	10	2457	18.70	19.10	21.91	30.00		3.71		25.62		36.00		Pass
HT20	MCS0	2	11	2462	16.10	16.50	19.31	30.00		3.71		23.02		36.00		Pass
HT40	MCS0	2	3	2422	15.70	15.90	18.81	30.00		3.71		22.52		36.00		Pass
HT40	MCS0	2	6	2437	17.70	17.70	20.71	30.00		3.71		24.42		36.00		Pass
HT40	MCS0	2	9	2452	16.60	16.90	19.76	30.00		3.71		23.47		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	-1.45	-		5.41	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-0.43	-		5.41	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-0.17	-		5.41	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-6.59	-		5.41	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-2.87	-		5.41	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-5.82	-		5.41	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-6.11	-		5.41	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-2.78	-		5.41	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-5.85	-		5.41	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-11.02	-		5.41	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-9.73	-		5.41	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-10.41	-		5.41	-	8.00	-	Pass

2.4GHz Band MIMO												
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	2	1	2412	-2.46	-2.32	0.69	6.68		7.32		Pass
11b	1Mbps	2	6	2437	-0.10	-0.89	2.91	6.68		7.32		Pass
11b	1Mbps	2	11	2462	-2.83	-2.99	0.18	6.68		7.32		Pass
11g	6Mbps	2	1	2412	-7.78	-7.35	-4.34	6.68		7.32		Pass
11g	6Mbps	2	6	2437	-3.44	-3.52	-0.43	6.68		7.32		Pass
11g	6Mbps	2	11	2462	-8.71	-8.14	-5.13	6.68		7.32		Pass
HT20	MCS0	2	1	2412	-8.26	-7.63	-4.62	6.68		7.32		Pass
HT20	MCS0	2	6	2437	-3.77	-3.47	-0.46	6.68		7.32		Pass
HT20	MCS0	2	11	2462	-8.45	-7.93	-4.92	6.68		7.32		Pass
HT40	MCS0	2	3	2422	-11.94	-11.52	-8.51	6.68		7.32		Pass
HT40	MCS0	2	6	2437	-9.81	-9.95	-6.80	6.68		7.32		Pass
HT40	MCS0	2	9	2452	-10.71	-10.36	-7.35	6.68		7.32		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																	
Mod.	Data Rate	N _{TX}	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	16.90	-		30.00	-	5.41	-	22.31	-	36.00	-	Pass
HE20	MCS0	1	6	2437	Full	21.60	-		30.00	-	5.41	-	27.01	-	36.00	-	Pass
HE20	MCS0	1	11	2462	Full	18.70	-		30.00	-	5.41	-	24.11	-	36.00	-	Pass
HE40	MCS0	1	3	2422	Full	16.10	-		30.00	-	5.41	-	21.51	-	36.00	-	Pass
HE40	MCS0	1	6	2437	Full	17.80	-		30.00	-	5.41	-	23.21	-	36.00	-	Pass
HE40	MCS0	1	9	2452	Full	16.00	-		30.00	-	5.41	-	21.41	-	36.00	-	Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	N _{TX}	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	2	1	2412	Full	16.30	16.40	19.36	30.00		3.71		23.07		36.00		Pass
HE20	MCS0	2	6	2437	Full	20.90	21.00	23.96	30.00		3.71		27.67		36.00		Pass
HE20	MCS0	2	11	2462	Full	15.70	15.90	18.81	30.00		3.71		22.52		36.00		Pass
HE40	MCS0	2	3	2422	Full	16.10	16.20	19.16	30.00		3.71		22.87		36.00		Pass
HE40	MCS0	2	6	2437	Full	16.30	16.50	19.41	30.00		3.71		23.12		36.00		Pass
HE40	MCS0	2	9	2452	Full	15.50	16.10	18.82	30.00		3.71		22.53		36.00		Pass

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna											
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1		
EHT20	MCS0	1	1	2412	Full	18.98	-	16.21	-	0.50	Pass
EHT20	MCS0	1	6	2437	Full	18.97	-	17.13	-	0.50	Pass
EHT20	MCS0	1	11	2462	Full	18.99	-	18.17	-	0.50	Pass
EHT40	MCS0	1	3	2422	Full	38.13	-	35.91	-	0.50	Pass
EHT40	MCS0	1	6	2437	Full	38.13	-	35.11	-	0.50	Pass
EHT40	MCS0	1	9	2452	Full	38.16	-	37.21	-	0.50	Pass

2.4GHz Band MIMO											
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant0	Ant1	Ant0	Ant1		
EHT20	MCS0	2	1	2412	Full	18.96	19.05	16.10	16.25	0.50	Pass
EHT20	MCS0	2	6	2437	Full	18.96	19.03	15.09	18.57	0.50	Pass
EHT20	MCS0	2	11	2462	Full	18.98	19.02	15.80	17.20	0.50	Pass
EHT40	MCS0	2	3	2422	Full	38.09	38.23	35.05	36.22	0.50	Pass
EHT40	MCS0	2	6	2437	Full	38.11	38.20	33.84	37.37	0.50	Pass
EHT40	MCS0	2	9	2452	Full	38.15	38.16	35.02	37.66	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	
EHT20	MCS0	1	1	2412	Full	17.00	-		30.00	-	5.41	-	22.41	-	36.00	-	Pass
EHT20	MCS0	1	2	2417	Full	18.70	-		30.00	-	5.41	-	24.11	-	36.00	-	Pass
EHT20	MCS0	1	6	2437	Full	21.70	-		30.00	-	5.41	-	27.11	-	36.00	-	Pass
EHT20	MCS0	1	11	2462	Full	18.80	-		30.00	-	5.41	-	24.21	-	36.00	-	Pass
EHT40	MCS0	1	3	2422	Full	16.20	-		30.00	-	5.41	-	21.61	-	36.00	-	Pass
EHT40	MCS0	1	6	2437	Full	17.90	-		30.00	-	5.41	-	23.31	-	36.00	-	Pass
EHT40	MCS0	1	9	2452	Full	16.10	-		30.00	-	5.41	-	21.51	-	36.00	-	Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant0	Ant1	SUM	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
EHT20	MCS0	2	1	2412	Full	16.40	16.50	19.46	30.00		3.71		23.17		36.00		Pass
EHT20	MCS0	2	2	2417	Full	16.90	17.10	20.01	30.00		3.71		23.72		36.00		Pass
EHT20	MCS0	2	3	2422	Full	18.00	18.10	21.06	30.00		3.71		24.77		36.00		Pass
EHT20	MCS0	2	6	2437	Full	21.00	21.10	24.06	30.00		3.71		27.77		36.00		Pass
EHT20	MCS0	2	10	2457	Full	18.00	18.40	21.21	30.00		3.71		24.92		36.00		Pass
EHT20	MCS0	2	11	2462	Full	15.80	16.00	18.91	30.00		3.71		22.62		36.00		Pass
EHT40	MCS0	2	3	2422	Full	16.20	16.30	19.26	30.00		3.71		22.97		36.00		Pass
EHT40	MCS0	2	6	2437	Full	16.40	16.60	19.51	30.00		3.71		23.22		36.00		Pass
EHT40	MCS0	2	9	2452	Full	15.60	16.20	18.92	30.00		3.71		22.63		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	N _{Tx}	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	
EHT20	MCS0	1	1	2412	Full	-7.19	-		5.41	-	8.00	-	Pass
EHT20	MCS0	1	6	2437	Full	-2.62	-		5.41	-	8.00	-	Pass
EHT20	MCS0	1	11	2462	Full	-5.69	-		5.41	-	8.00	-	Pass
EHT40	MCS0	1	3	2422	Full	-11.14	-		5.41	-	8.00	-	Pass
EHT40	MCS0	1	6	2437	Full	-9.71	-		5.41	-	8.00	-	Pass
EHT40	MCS0	1	9	2452	Full	-11.51	-		5.41	-	8.00	-	Pass

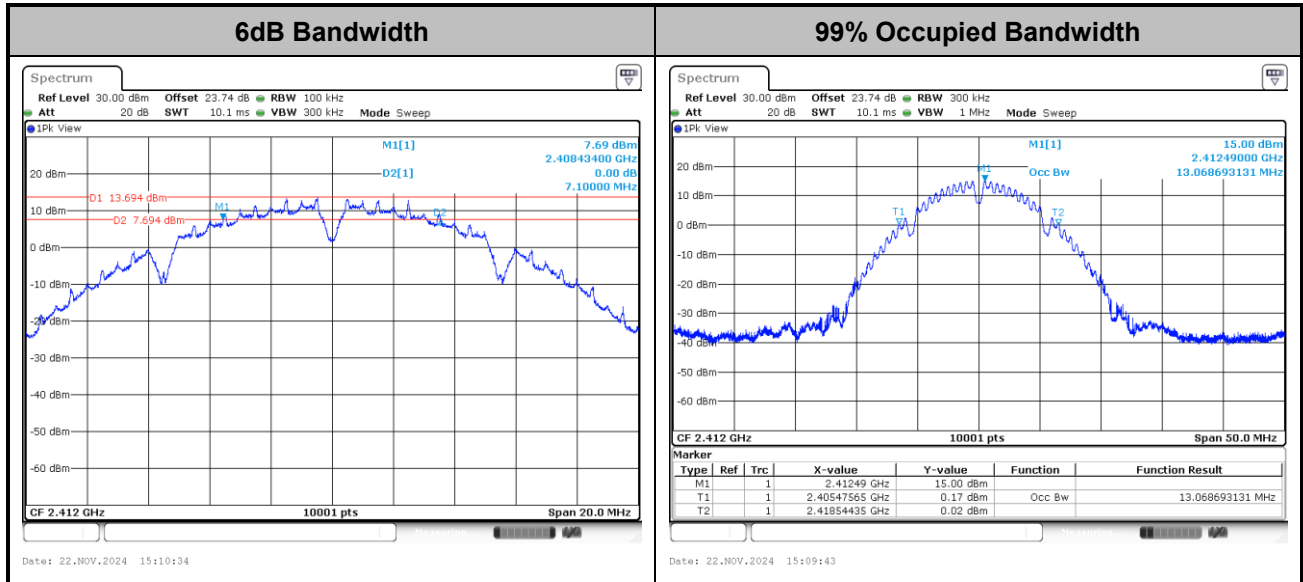
2.4GHz Band MIMO													
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant0	Ant1	Worse + 3.01	Ant0	Ant1	Ant0	Ant1	
EHT20	MCS0	2	1	2412	Full	-8.04	-7.81	-4.80	6.68		7.32		Pass
EHT20	MCS0	2	6	2437	Full	-3.57	-3.46	-0.45	6.68		7.32		Pass
EHT20	MCS0	2	11	2462	Full	-8.40	-8.31	-5.30	6.68		7.32		Pass
EHT40	MCS0	2	3	2422	Full	-11.14	-10.92	-7.91	6.68		7.32		Pass
EHT40	MCS0	2	6	2437	Full	-11.05	-10.82	-7.81	6.68		7.32		Pass
EHT40	MCS0	2	9	2452	Full	-11.60	-10.88	-7.87	6.68		7.32		Pass

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

**6dB and 99% Occupied Bandwidth**

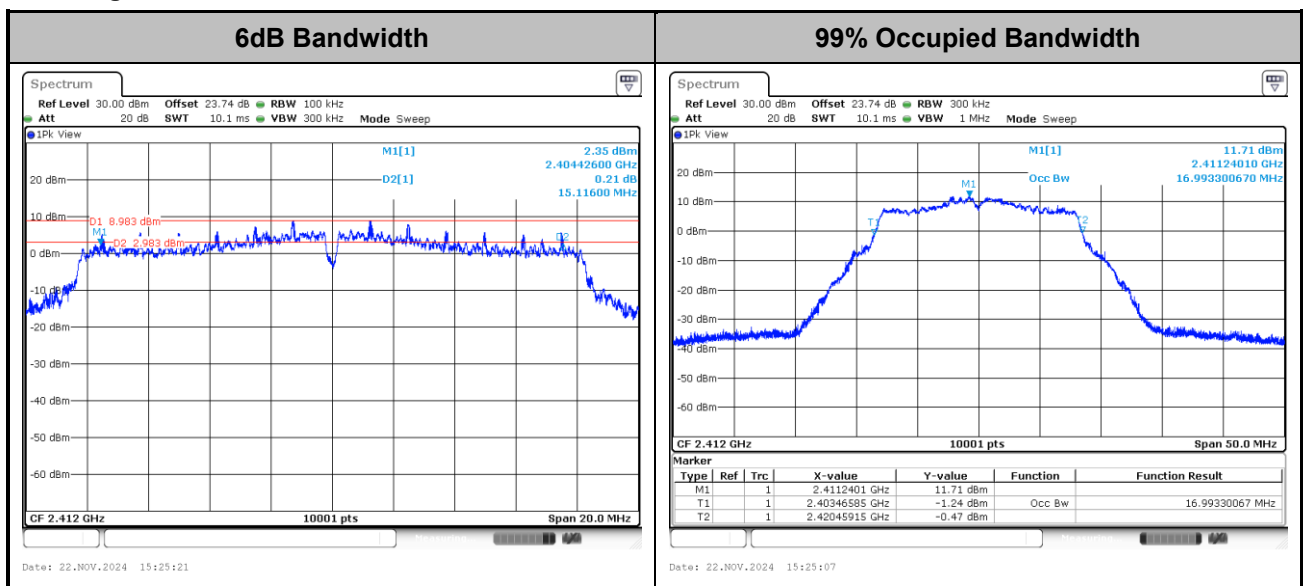
<Ant.0>

<802.11b>



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

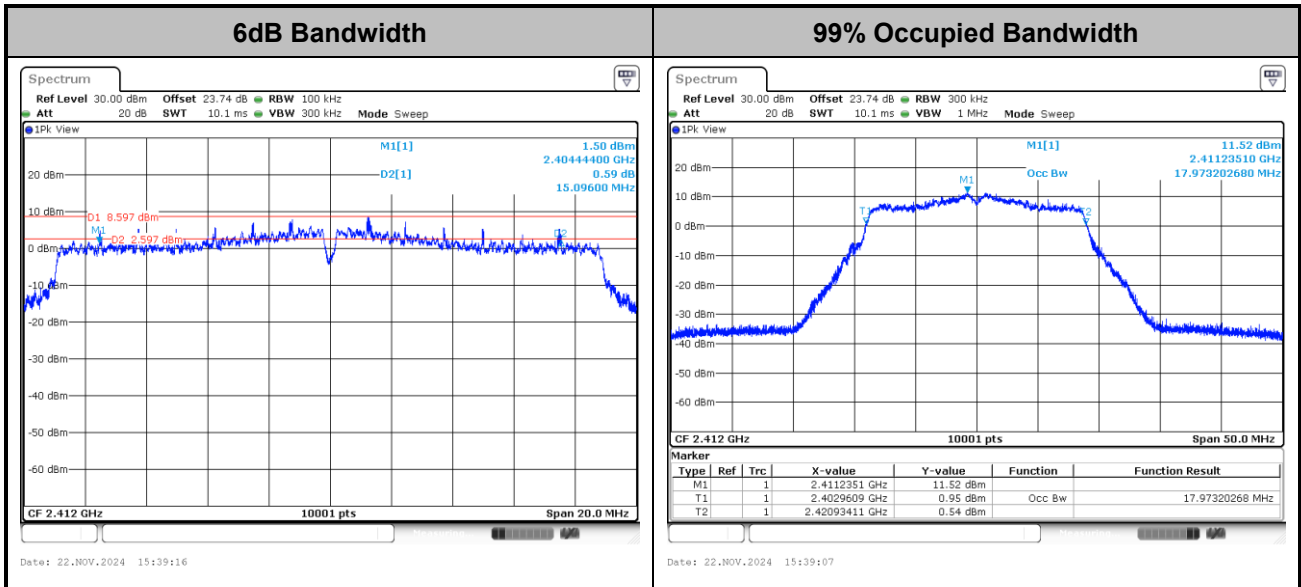
<802.11g>



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

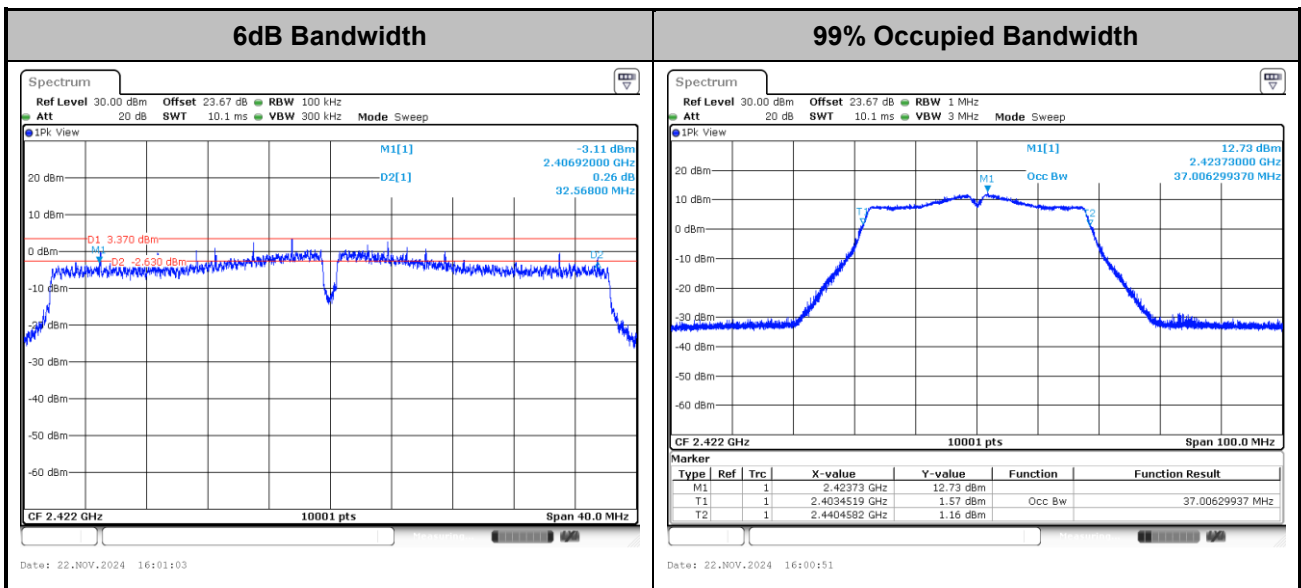


<802.11n HT20>



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

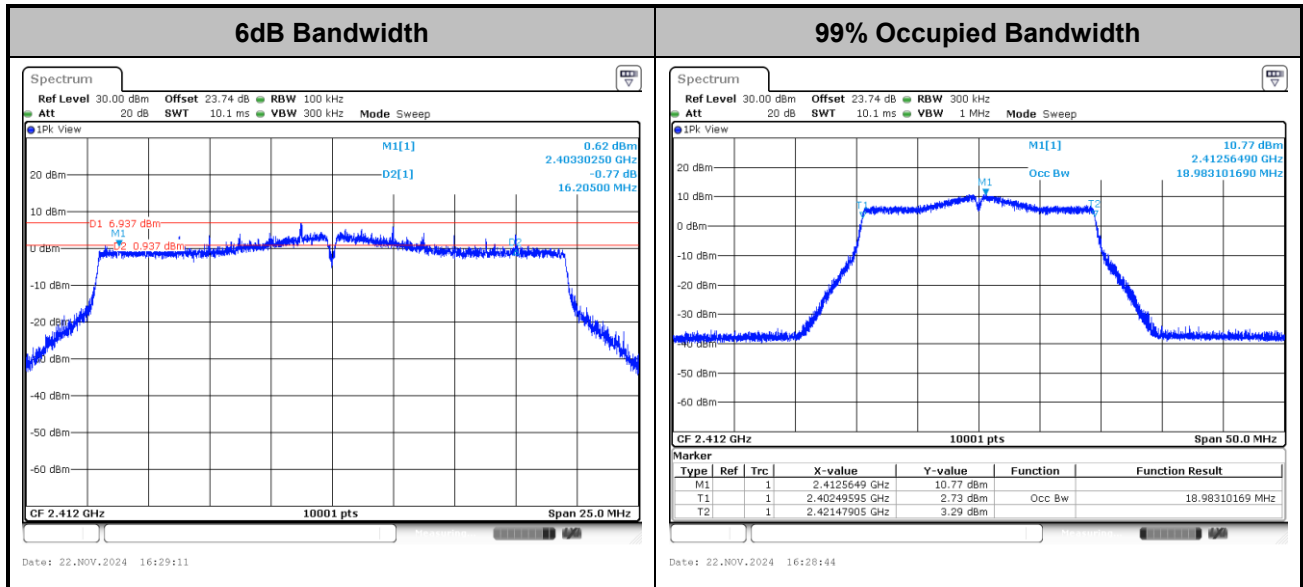
<802.11n HT40>



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

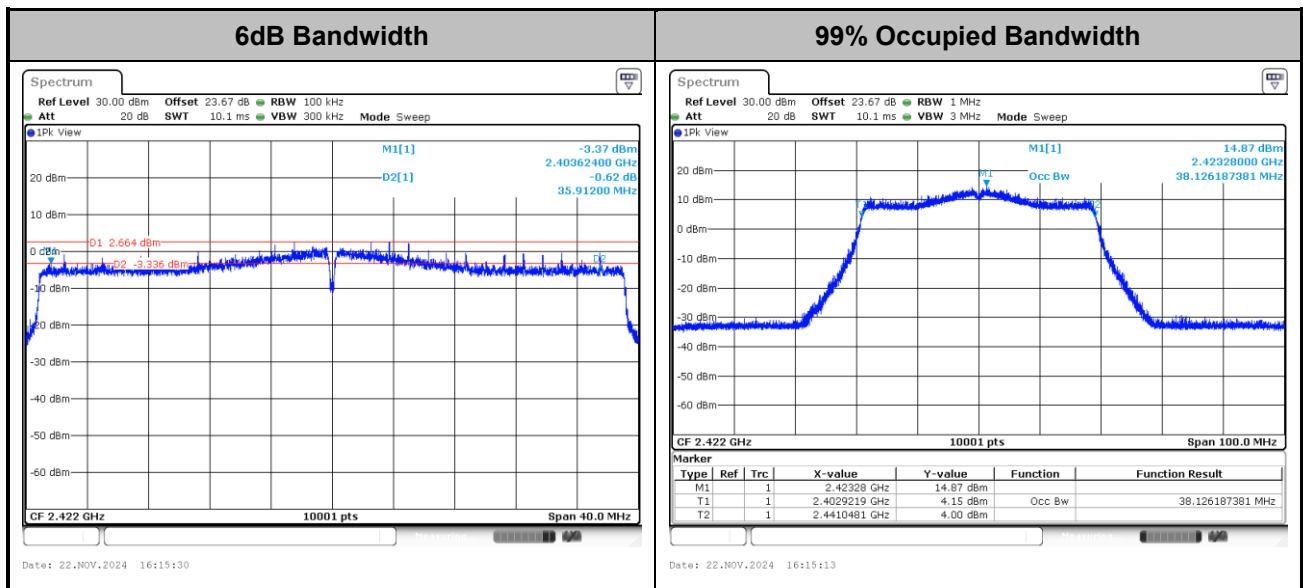


<802.11be EHT20>



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

<802.11be EHT40>

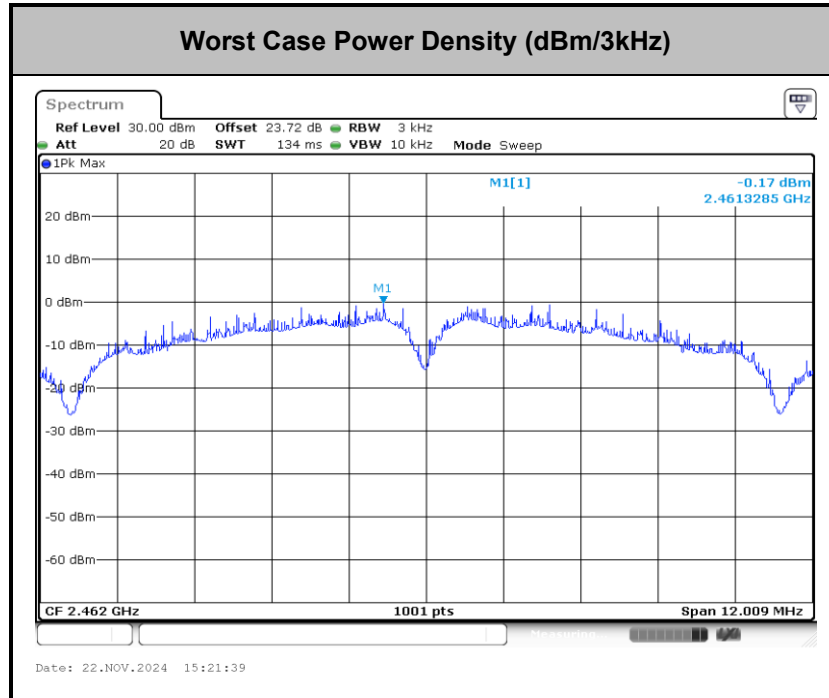


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

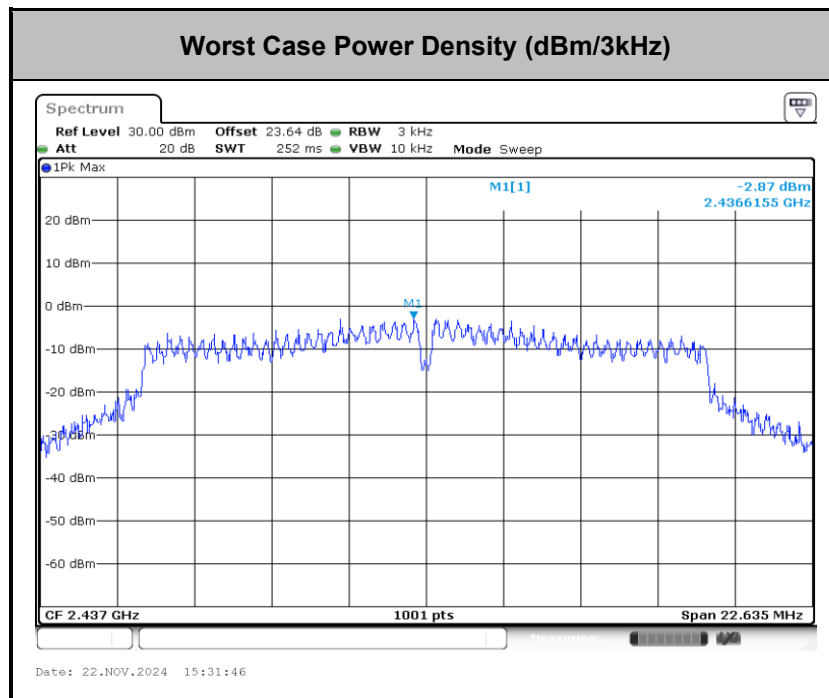


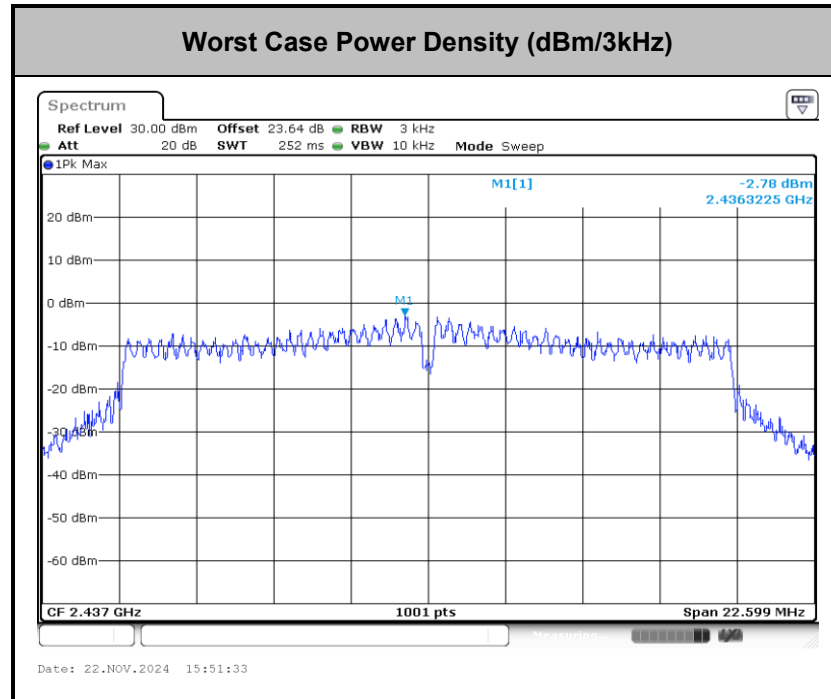
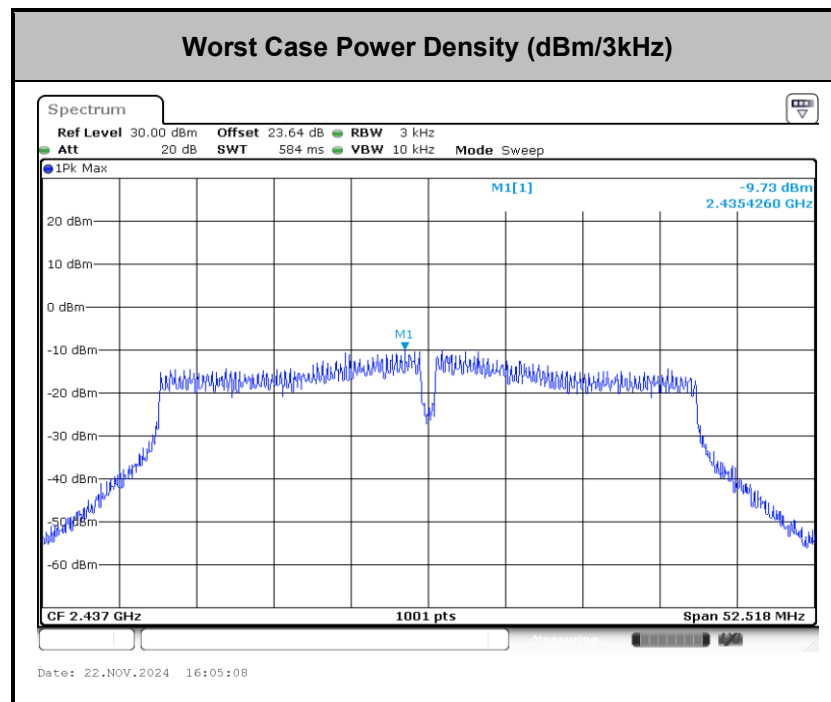
Power Spectral Density(dBm/3kHz)

<802.11b>



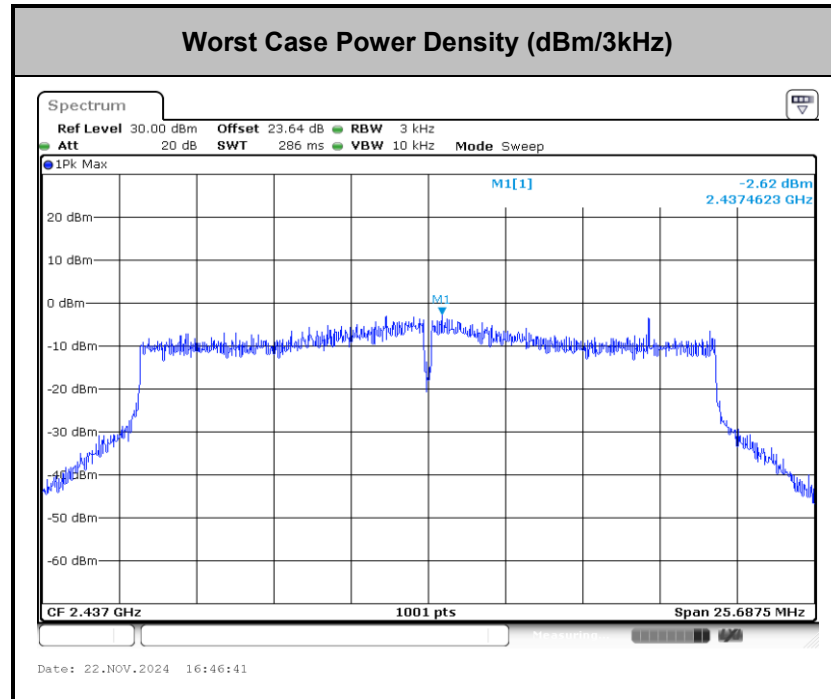
<802.11g>



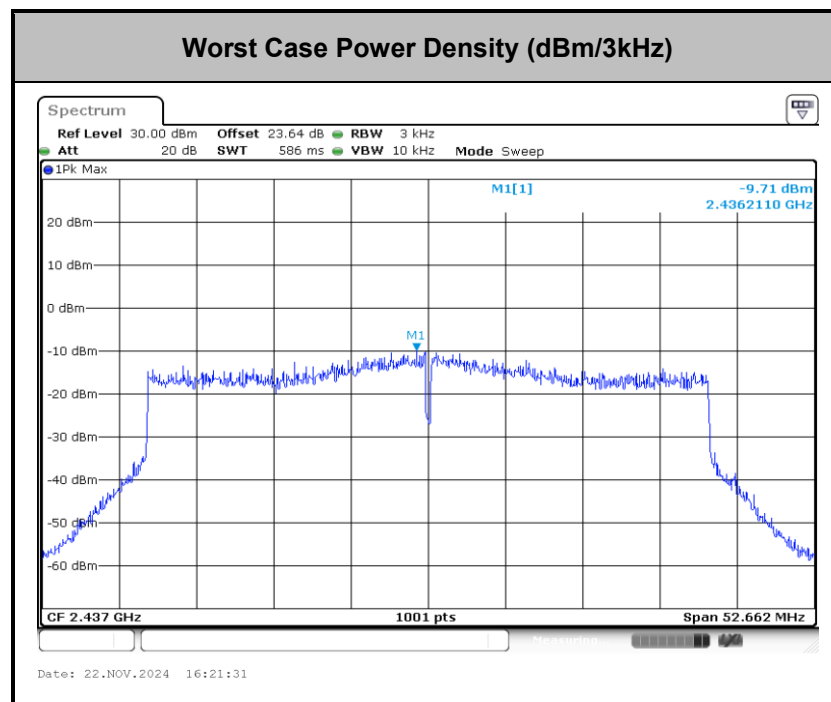
<802.11n HT20>

<802.11n HT40>




<802.11be EHT20>



<802.11be EHT40>

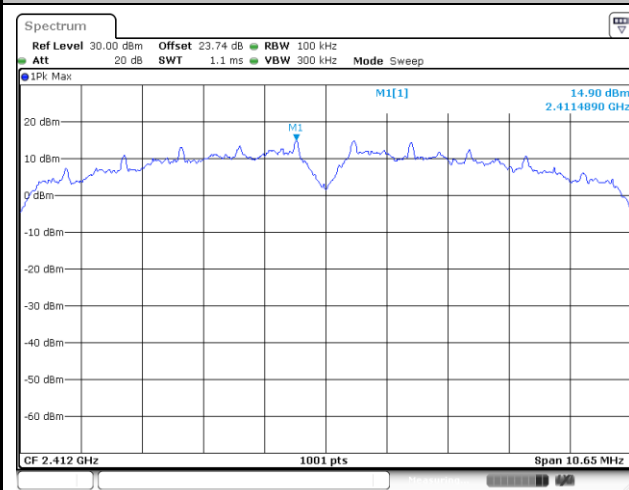
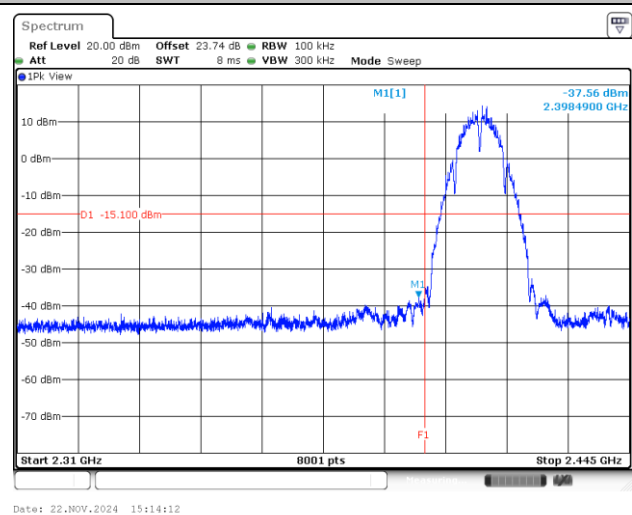
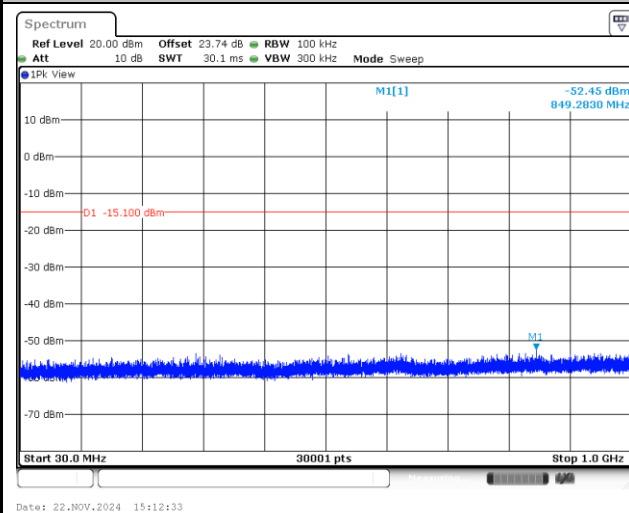
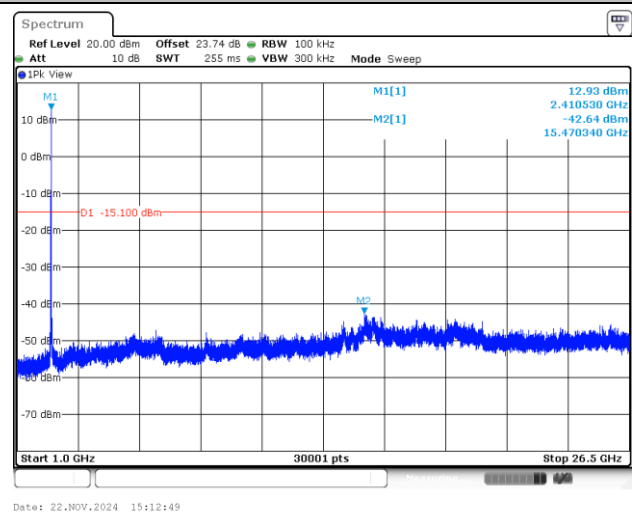


**Band Edges and Spurious Emission**

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

Test Mode : 802.11b

Test Channel : 01

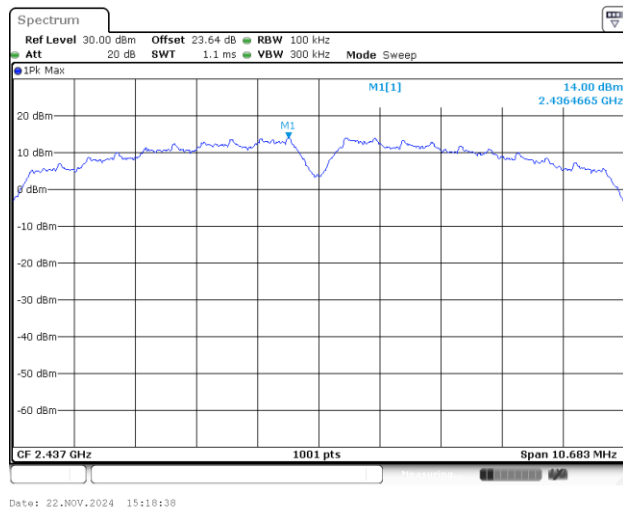
100kHz PSD reference Level**Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



Test Mode : 802.11b

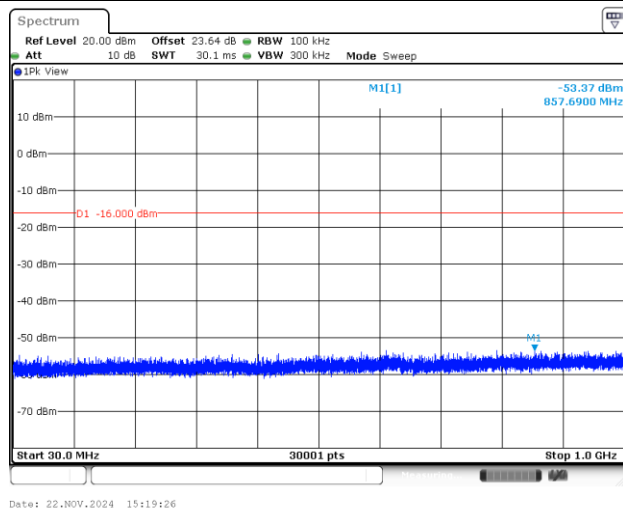
Test Channel : 06

100kHz PSD reference Level

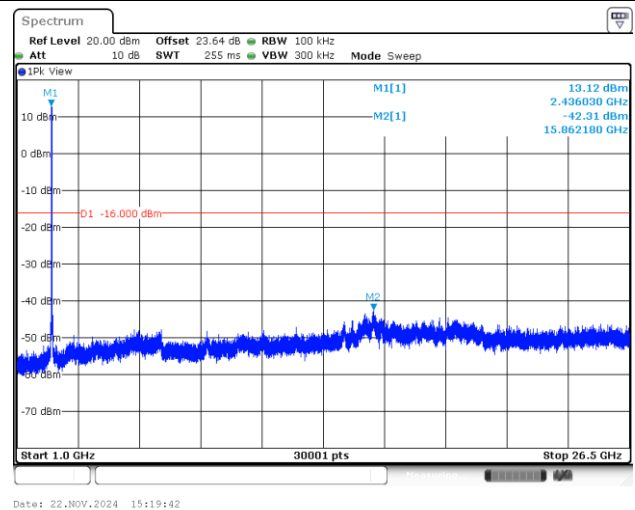


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

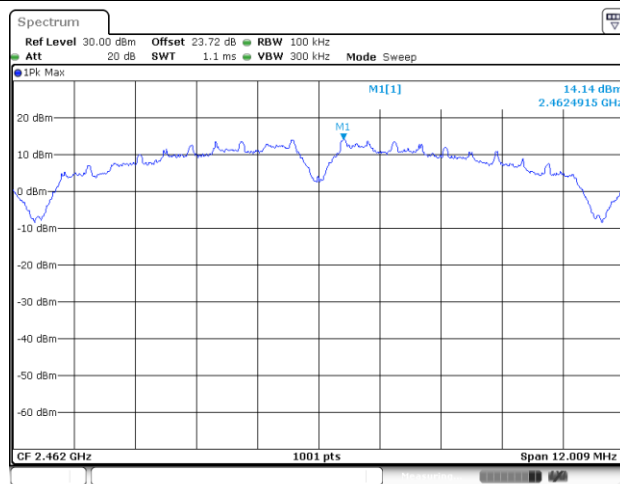




Test Mode : 802.11b

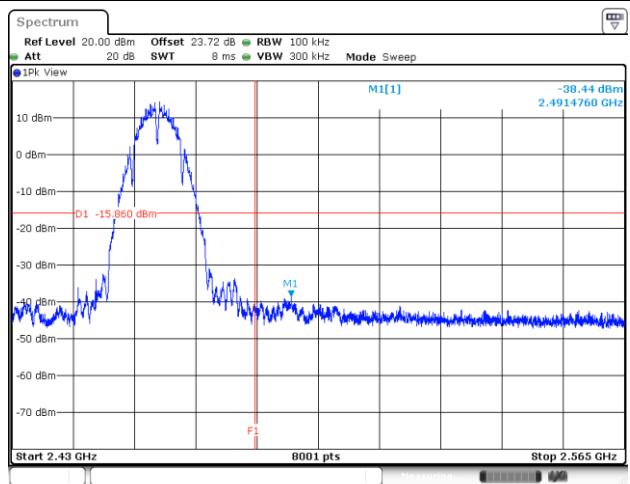
Test Channel : 11

100kHz PSD reference Level



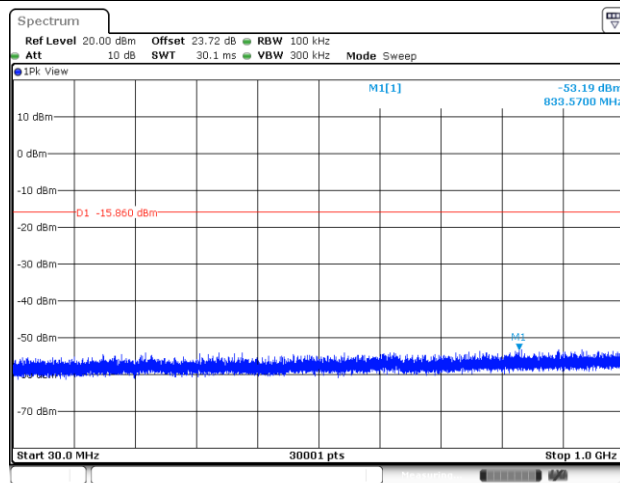
Date: 22.NOV.2024 15:21:57

Channel 11 Plot



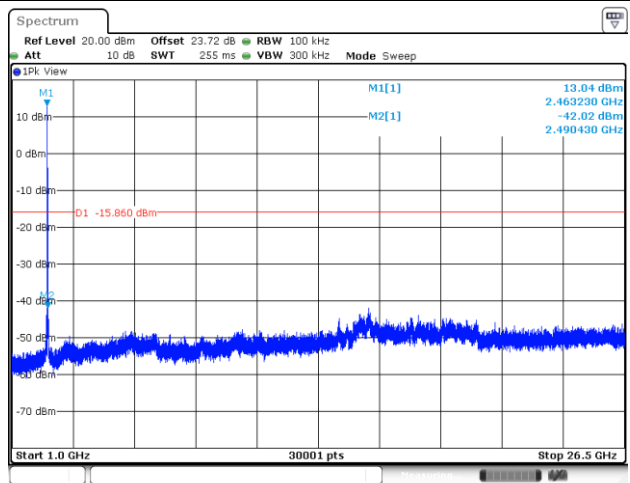
Date: 22.NOV.2024 15:22:54

Spurious Emission 30MHz~1GHz



Date: 22.NOV.2024 15:22:18

Spurious Emission 1GHz~26.5GHz



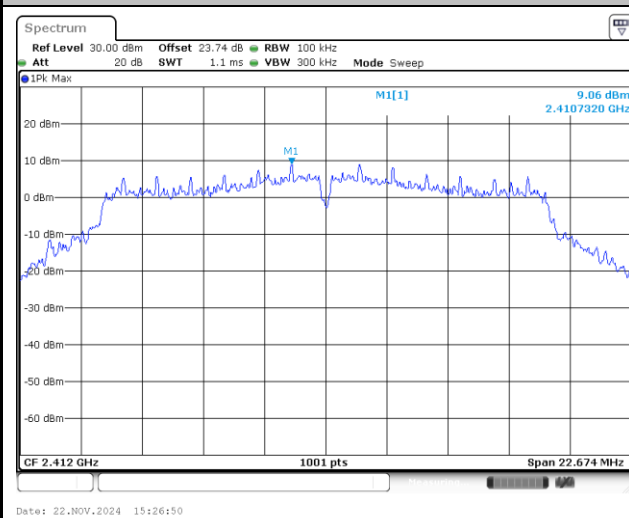
Date: 22.NOV.2024 15:22:34



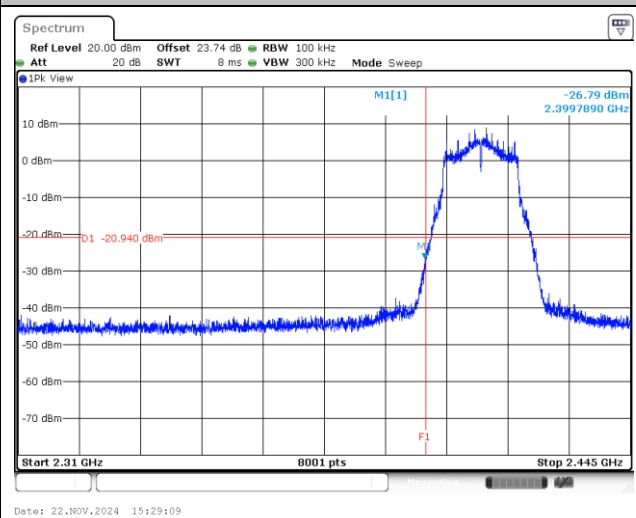
Test Mode : 802.11g

Test Channel : 01

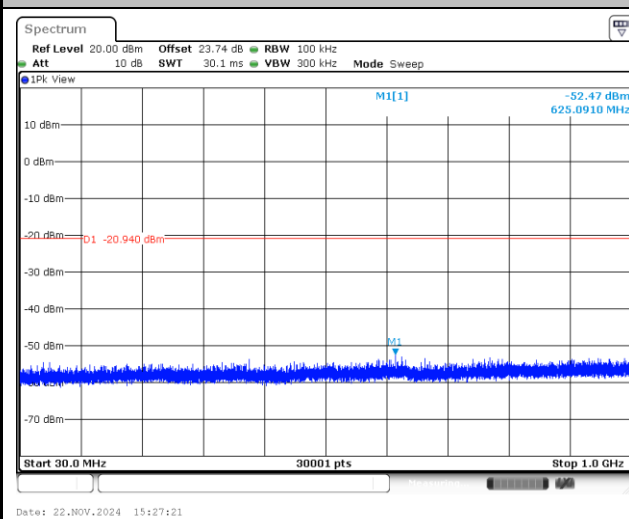
100kHz PSD reference Level



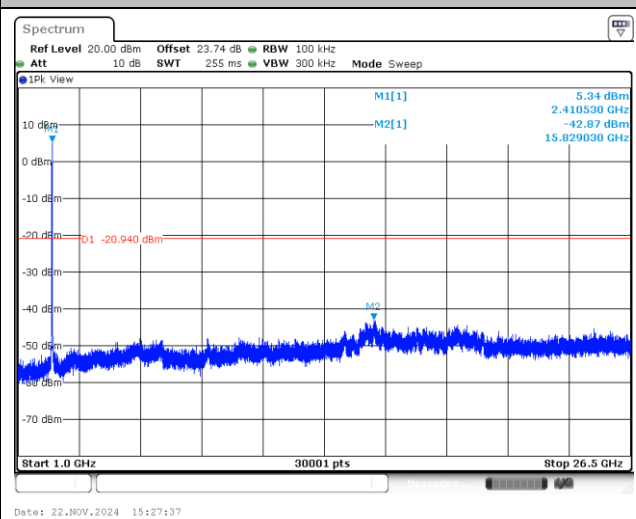
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

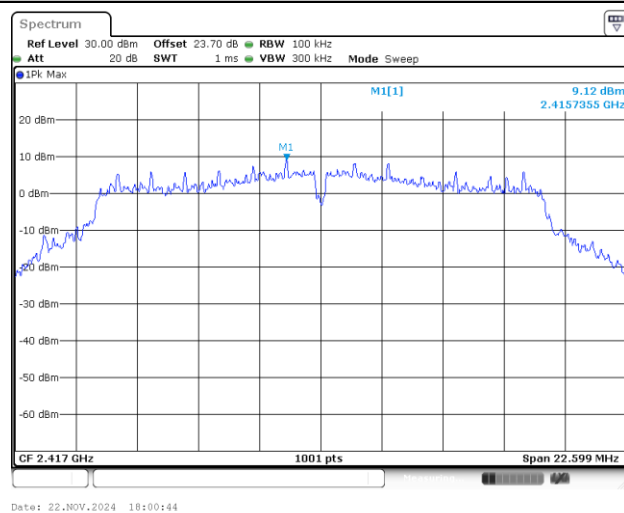




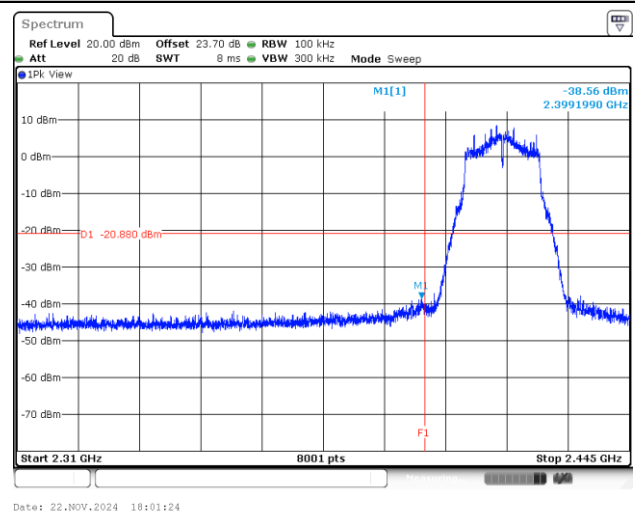
Test Mode : 802.11g

Test Channel : 02

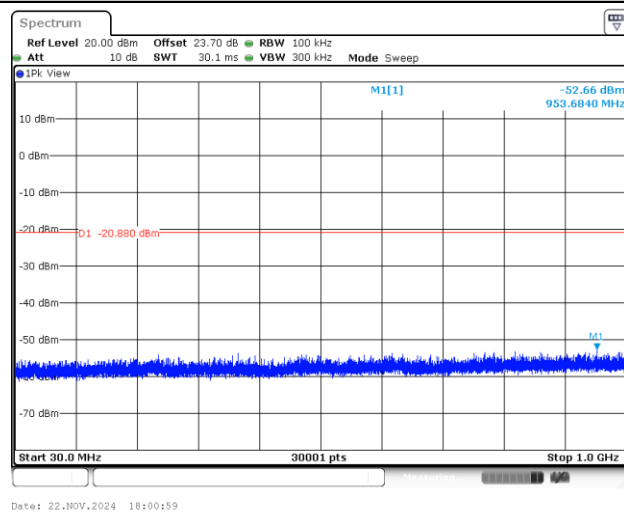
100kHz PSD reference Level



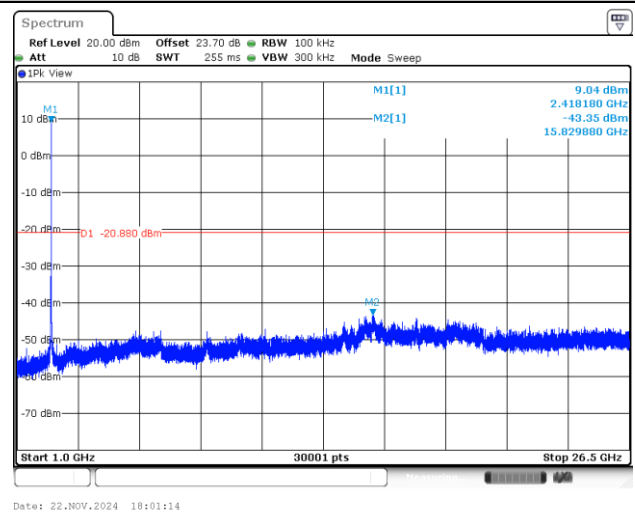
Channel 02 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

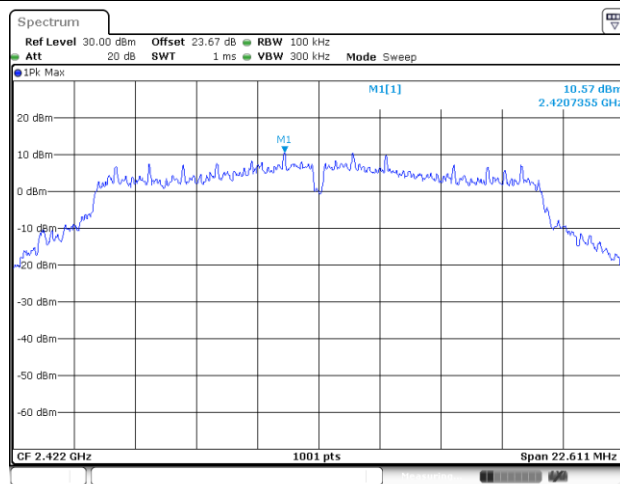




Test Mode : 802.11g

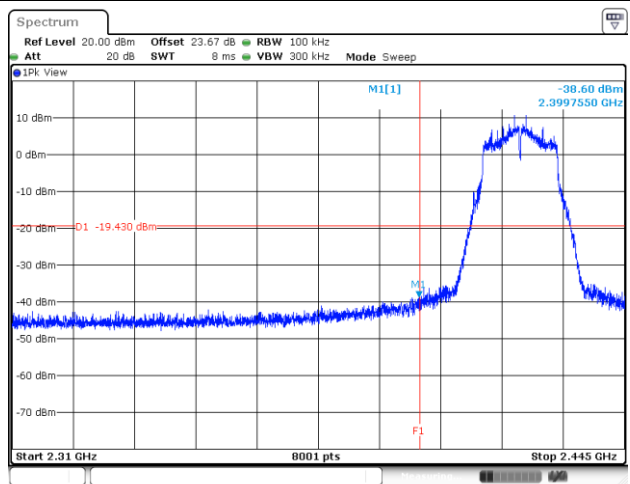
Test Channel : 03

100kHz PSD reference Level



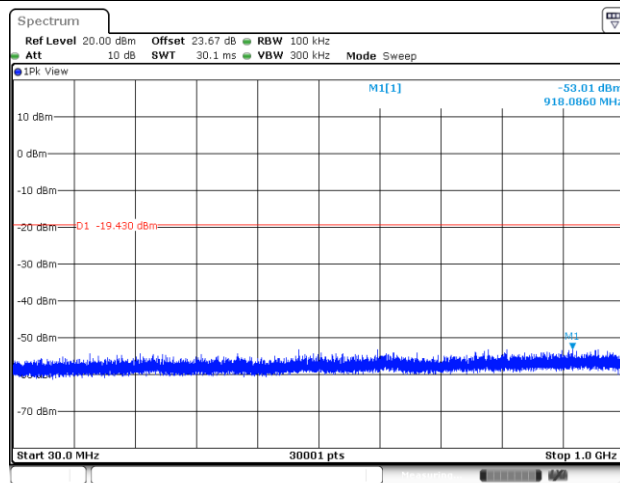
Date: 22.NOV.2024 18:02:58

Channel 03 Plot



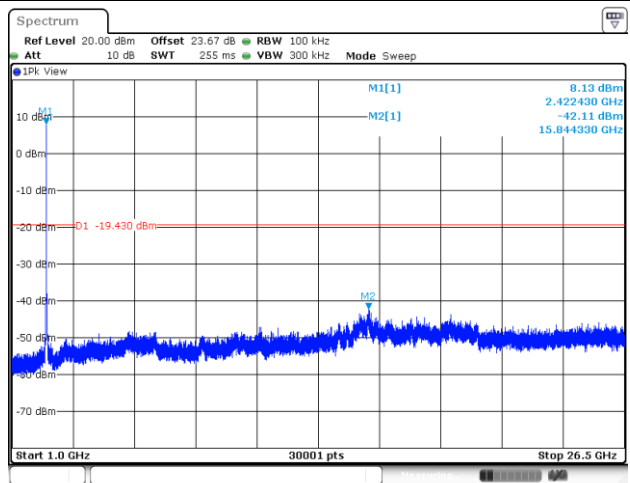
Date: 22.NOV.2024 18:03:40

Spurious Emission 30MHz~1GHz



Date: 22.NOV.2024 18:03:14

Spurious Emission 1GHz~26.5GHz



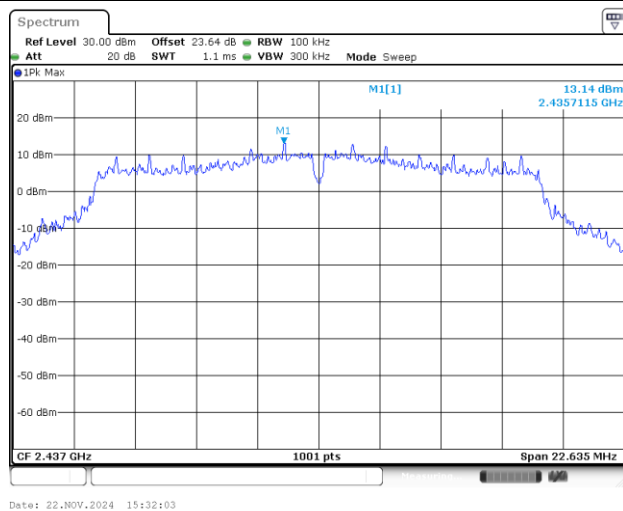
Date: 22.NOV.2024 18:03:29



Test Mode : 802.11g

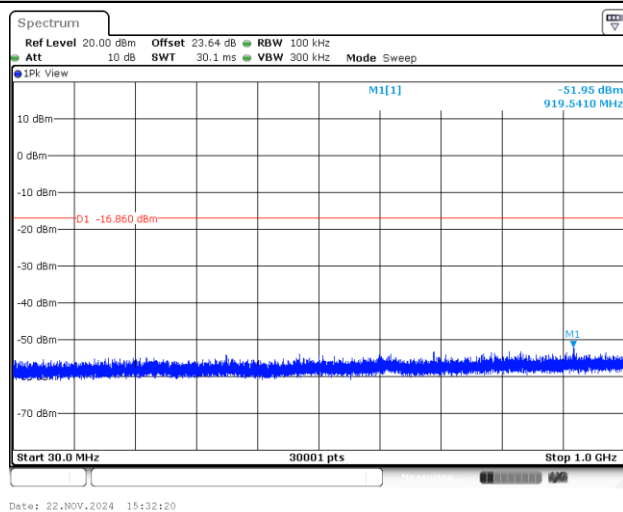
Test Channel : 06

100kHz PSD reference Level

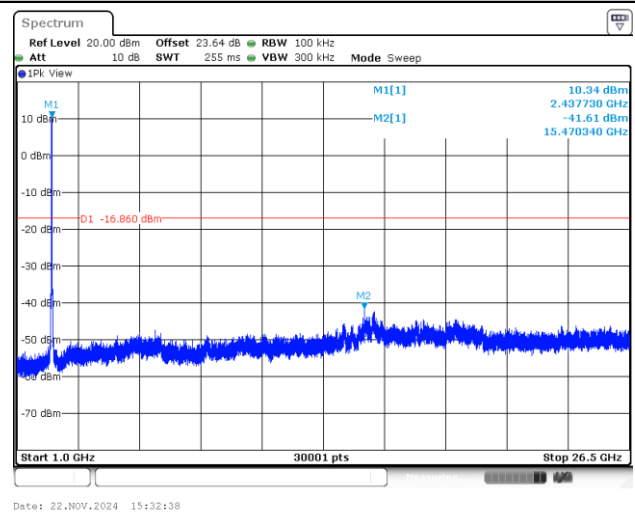


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

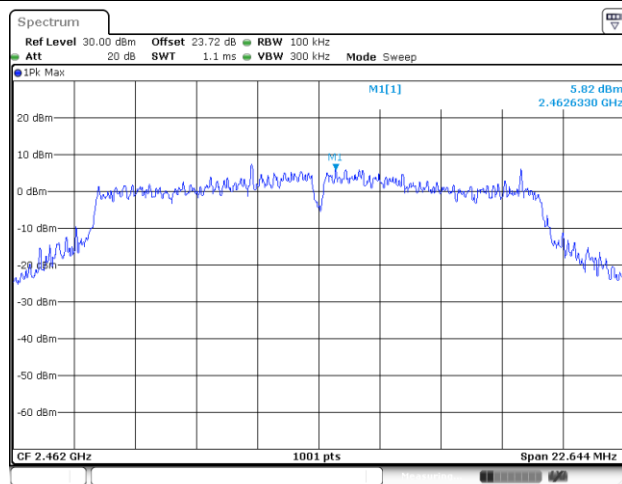




Test Mode : 802.11g

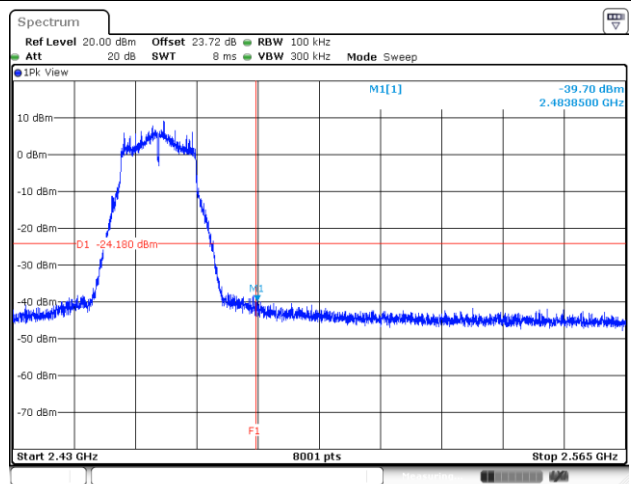
Test Channel : 11

100kHz PSD reference Level



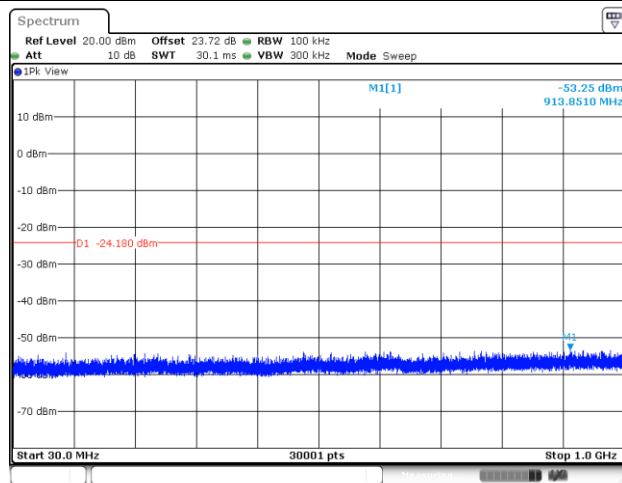
Date: 22.NOV.2024 15:35:59

Channel 11 Plot



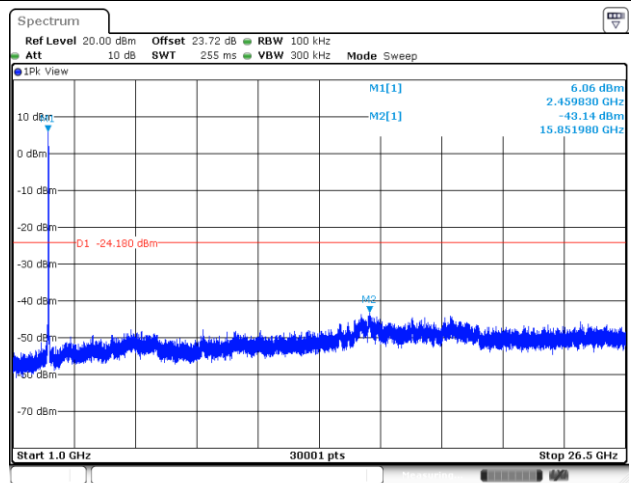
Date: 22.NOV.2024 15:36:44

Spurious Emission 30MHz~1GHz



Date: 22.NOV.2024 15:36:14

Spurious Emission 1GHz~26.5GHz



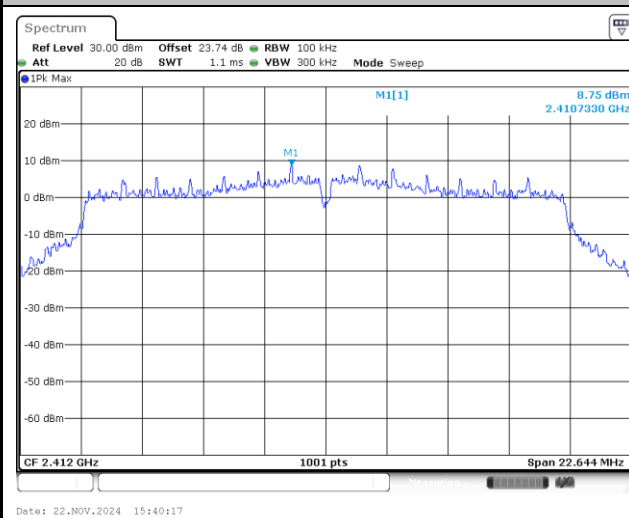
Date: 22.NOV.2024 15:36:29



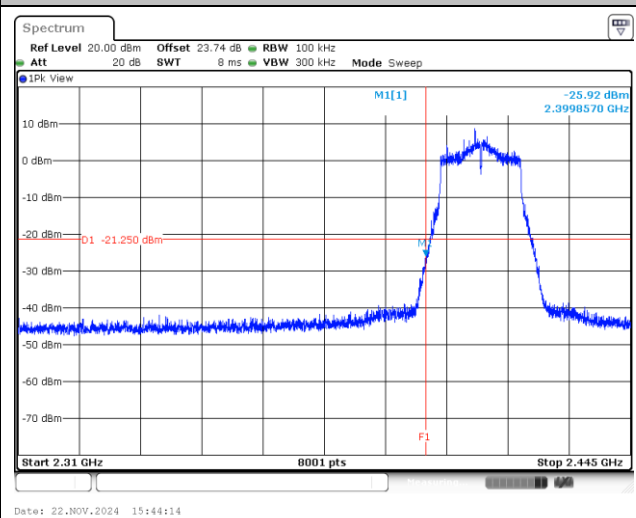
Test Mode : 802.11n HT20

Test Channel : 01

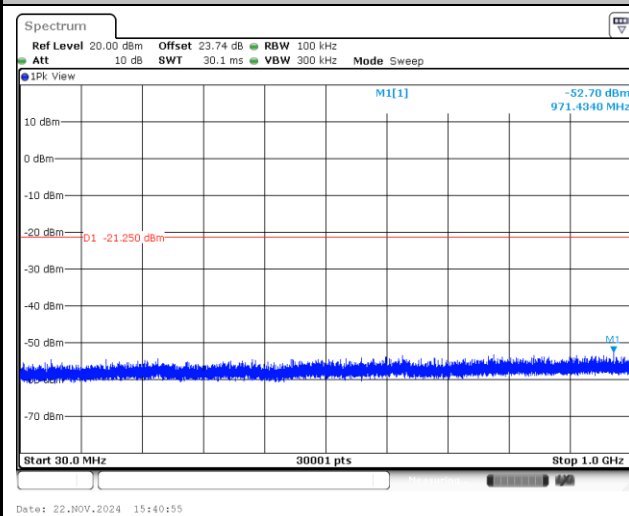
100kHz PSD reference Level



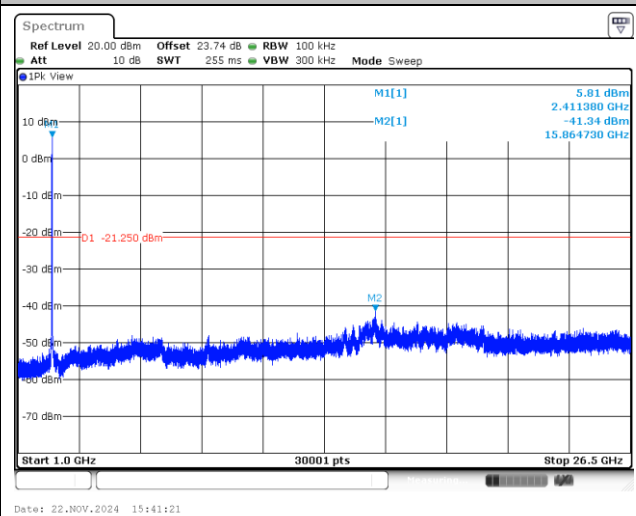
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

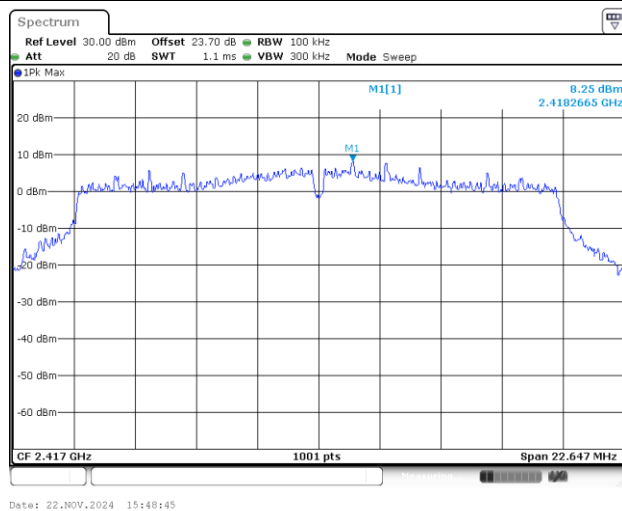




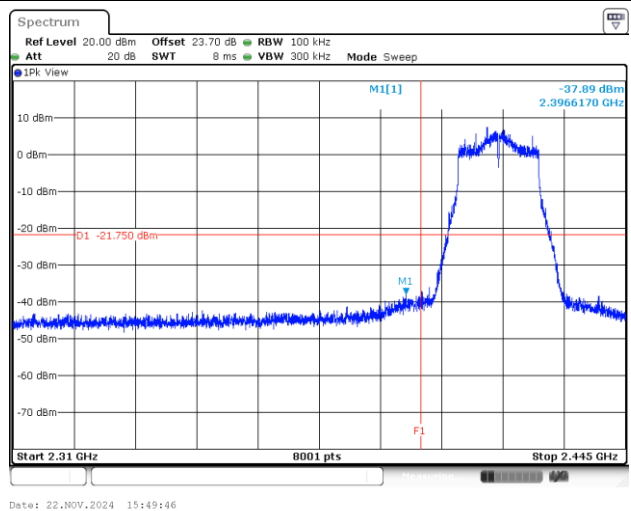
Test Mode : 802.11n HT20

Test Channel : 02

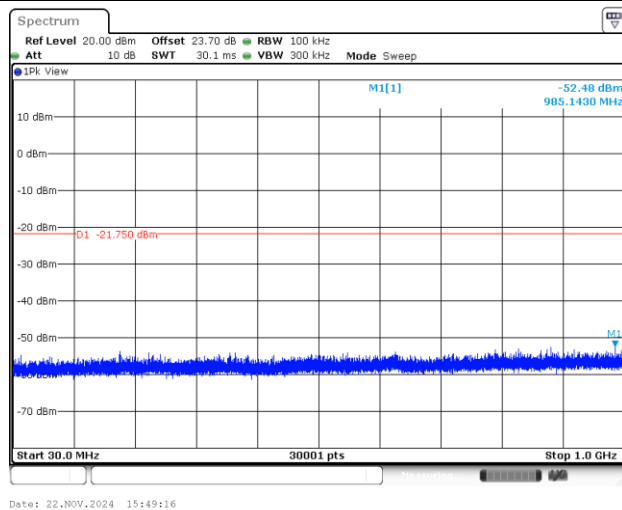
100kHz PSD reference Level



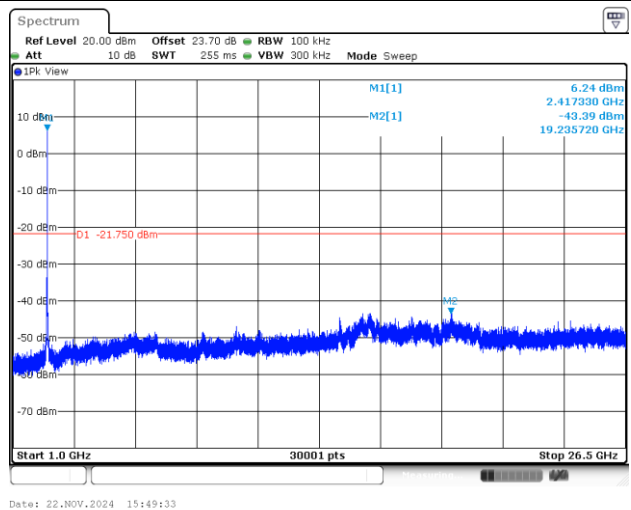
Channel 02 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

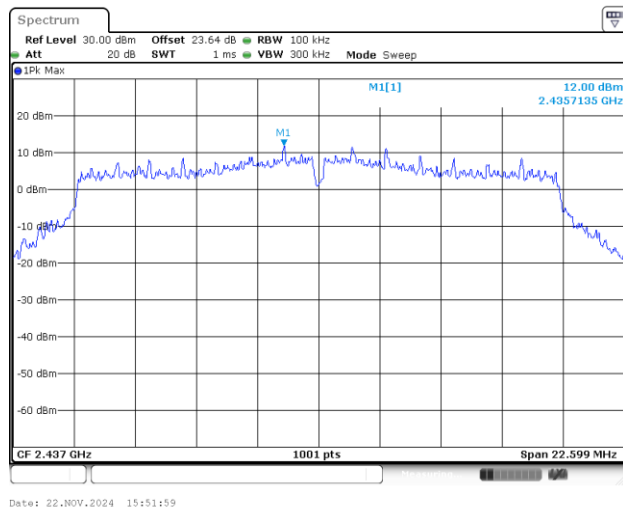




Test Mode : 802.11n HT20

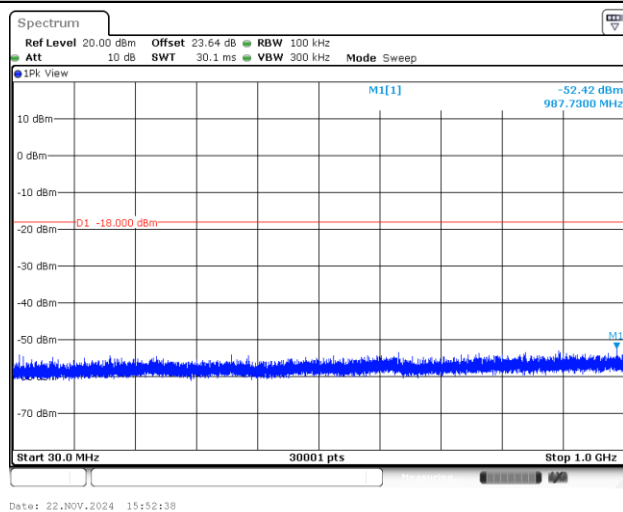
Test Channel : 06

100kHz PSD reference Level

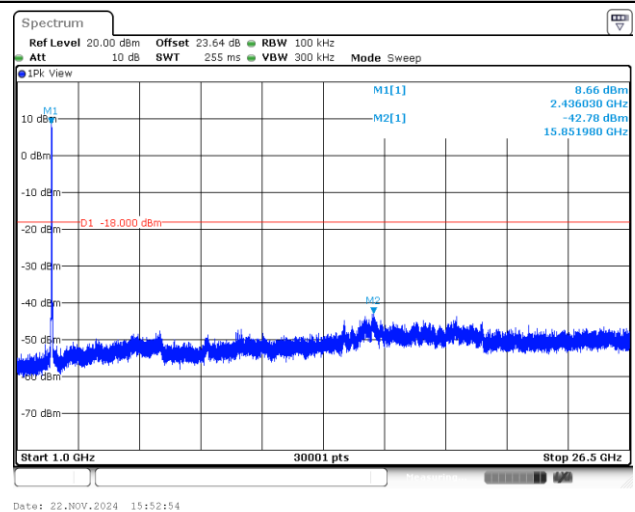


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

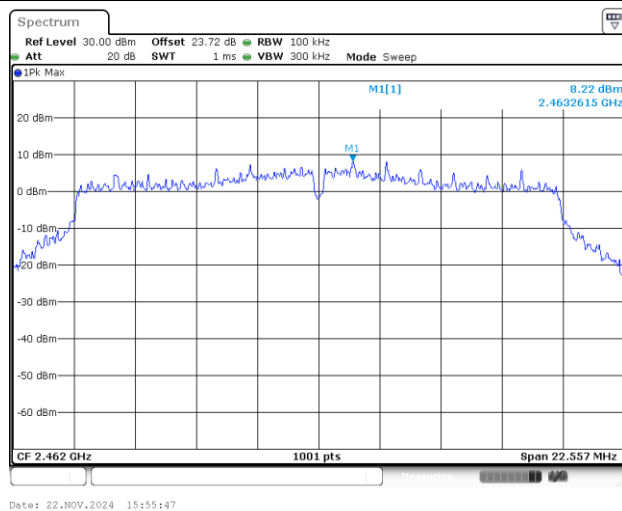




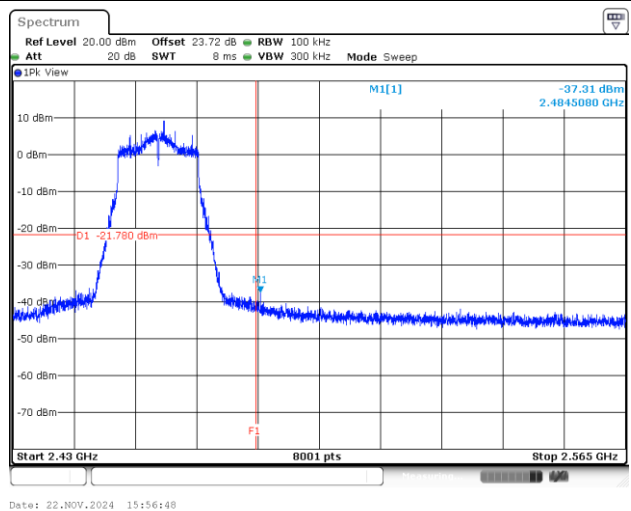
Test Mode : 802.11n HT20

Test Channel : 11

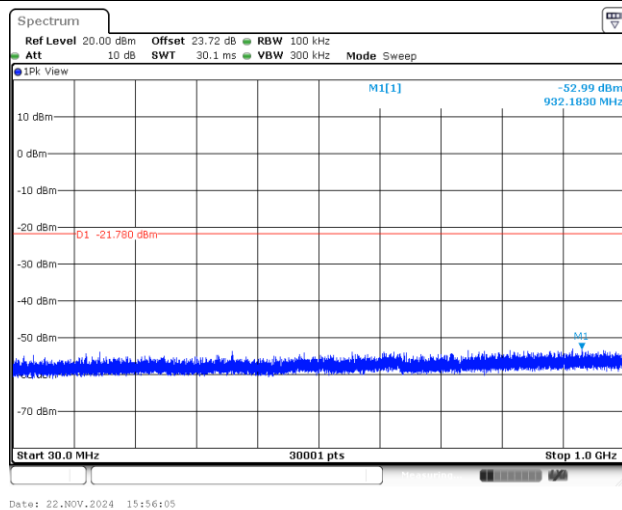
100kHz PSD reference Level



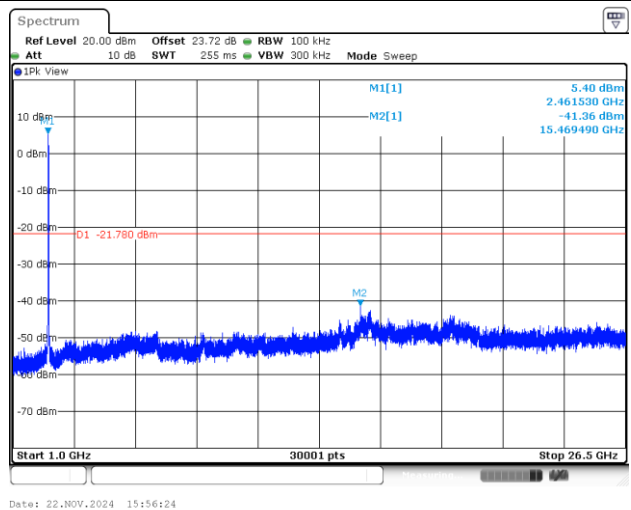
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

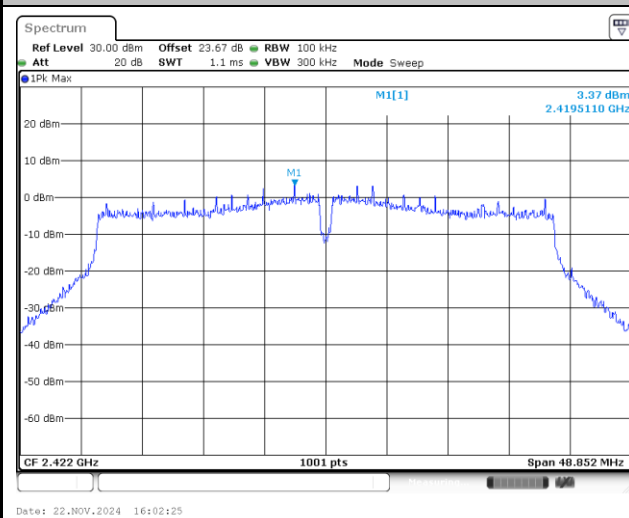




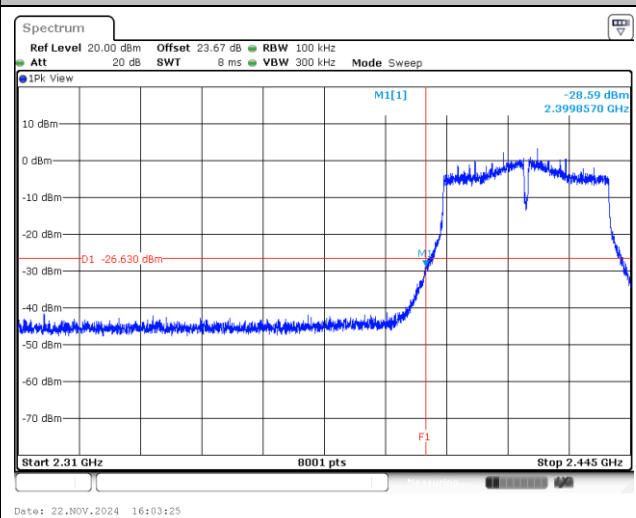
Test Mode : 802.11n HT40

Test Channel : 03

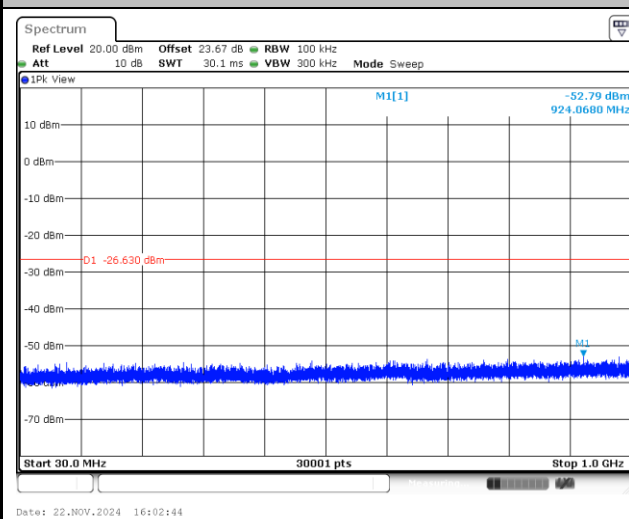
100kHz PSD reference Level



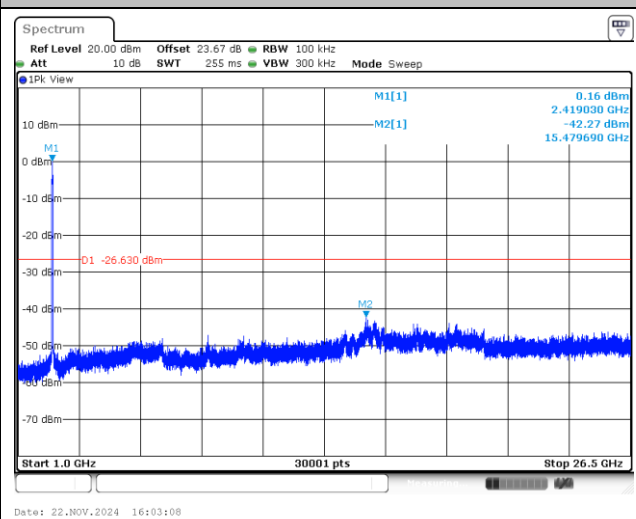
Channel 03 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

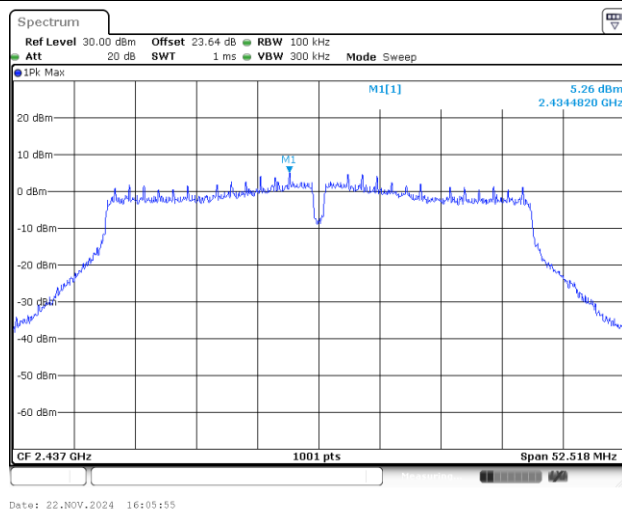




Test Mode : 802.11n HT40

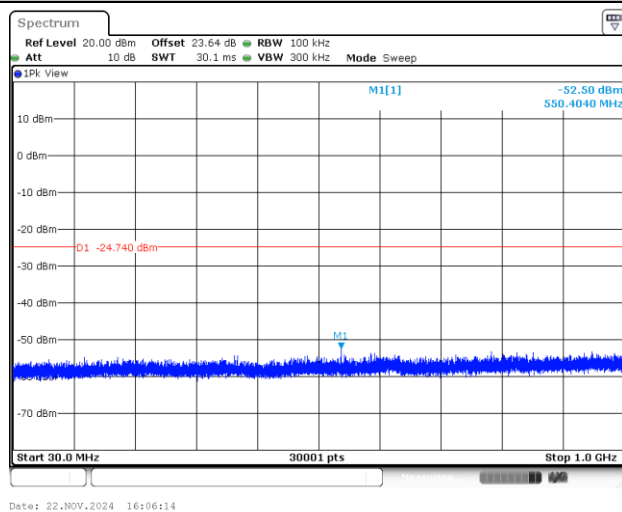
Test Channel : 06

100kHz PSD reference Level

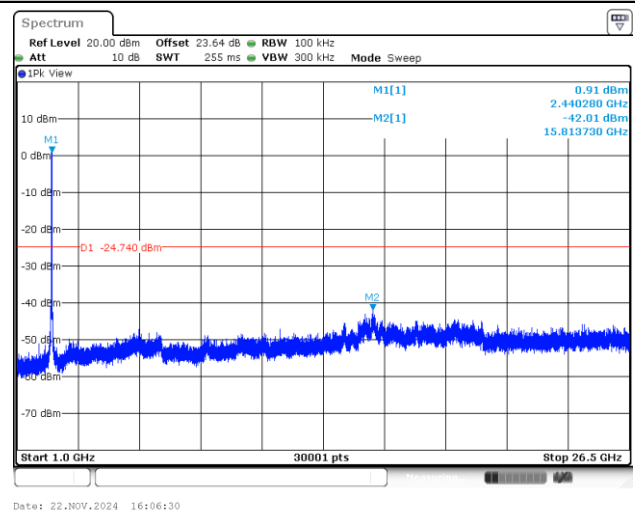


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

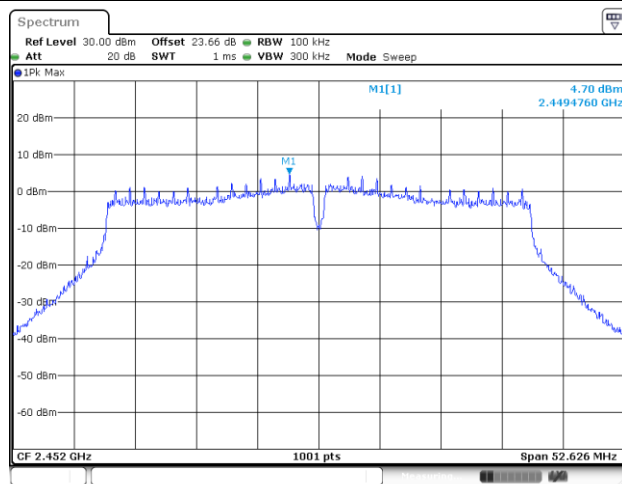




Test Mode : 802.11n HT40

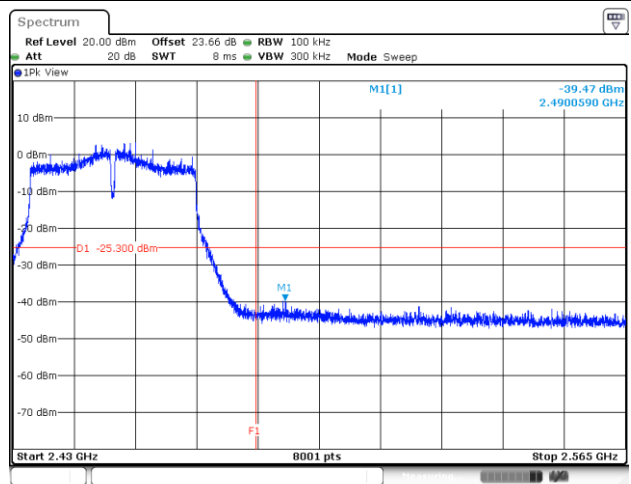
Test Channel : 09

100kHz PSD reference Level



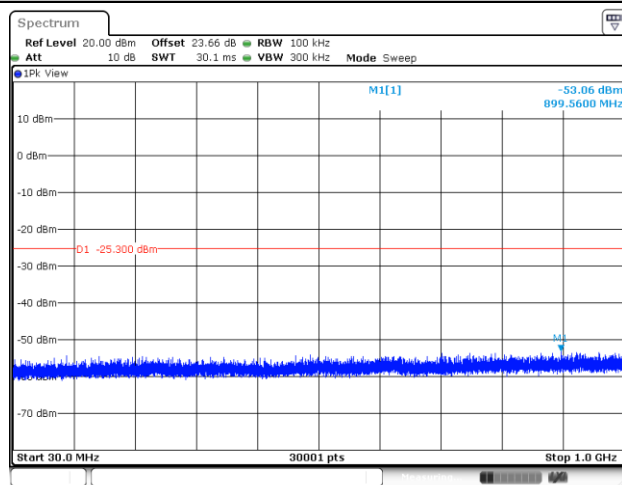
Date: 22.NOV.2024 16:09:14

Channel 09 Plot



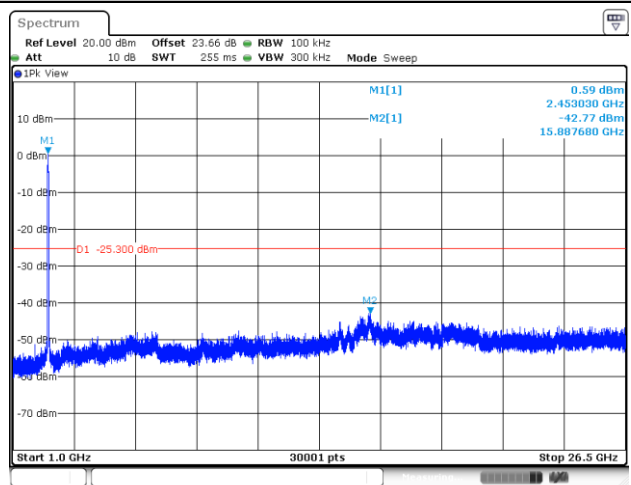
Date: 22.NOV.2024 16:10:13

Spurious Emission 30MHz~1GHz



Date: 22.NOV.2024 16:09:44

Spurious Emission 1GHz~26.5GHz



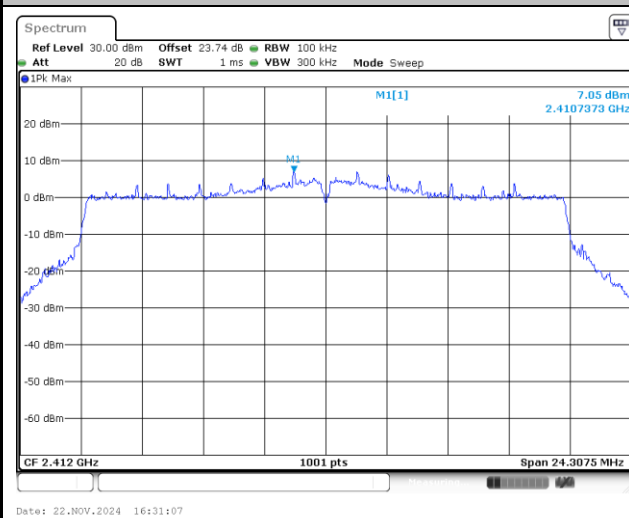
Date: 22.NOV.2024 16:09:59



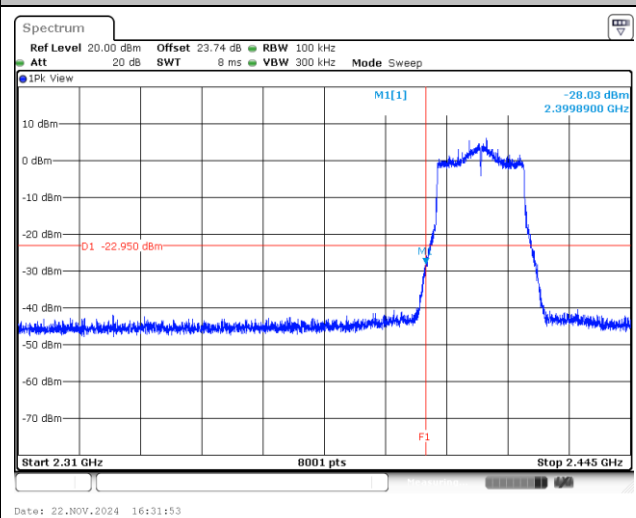
Test Mode : 802.11be EHT20_FullIRU

Test Channel : 01

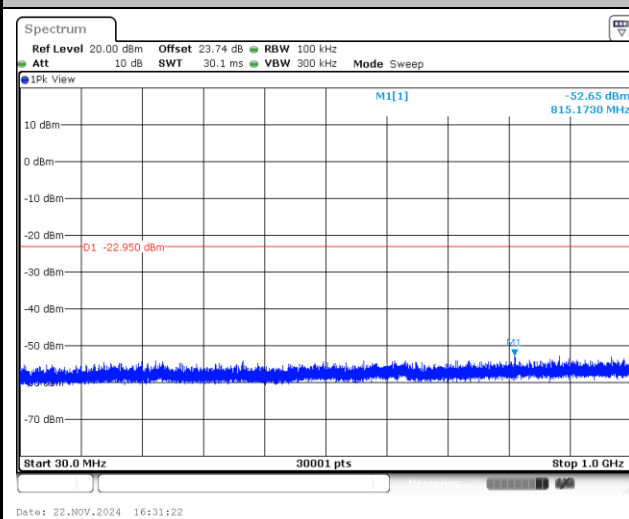
100kHz PSD reference Level



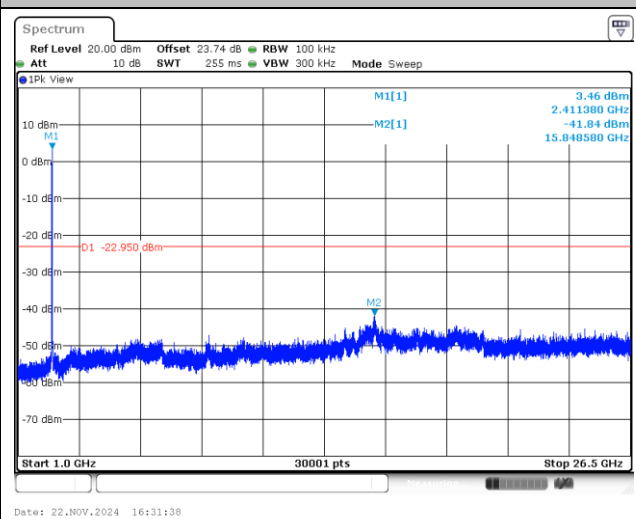
Channel 01 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

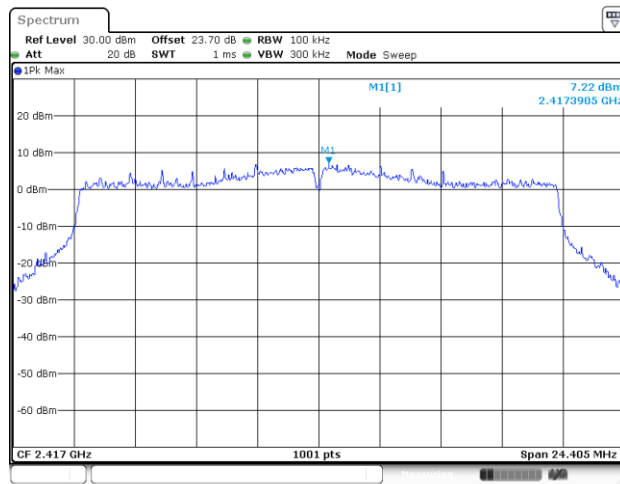




Test Mode : 802.11be EHT20_FullIRU

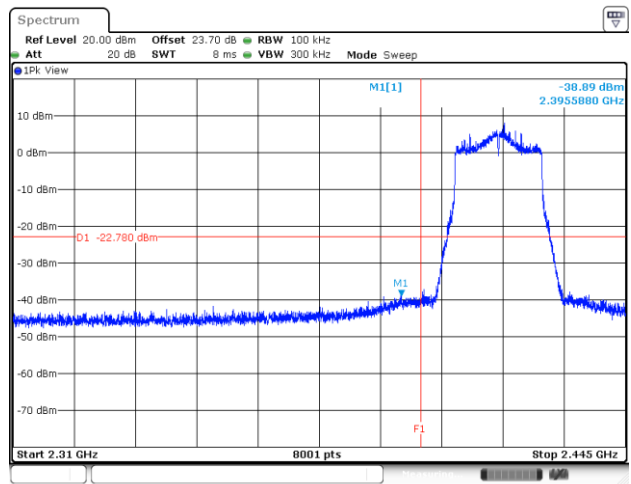
Test Channel : 02

100kHz PSD reference Level



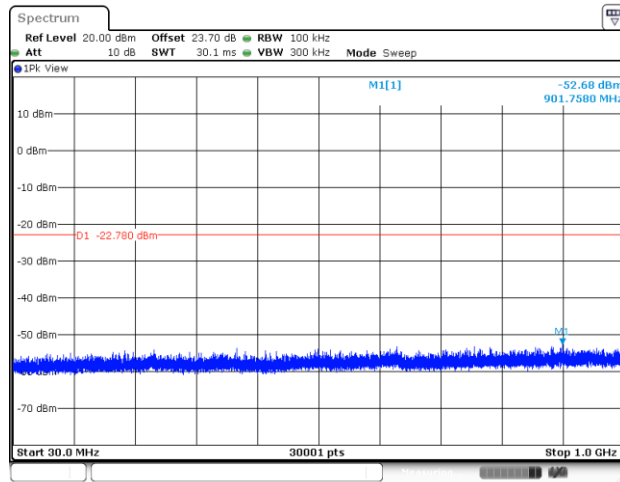
Date: 22.NOV.2024 16:44:11

Channel 02 Plot



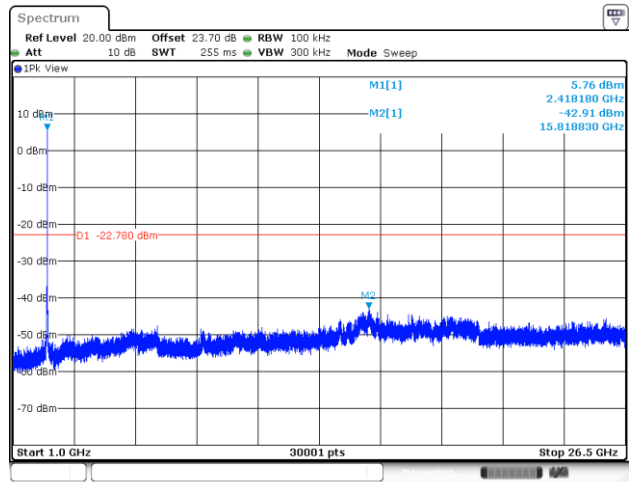
Date: 22.NOV.2024 16:44:56

Spurious Emission 30MHz~1GHz



Date: 22.NOV.2024 16:44:26

Spurious Emission 1GHz~26.5GHz



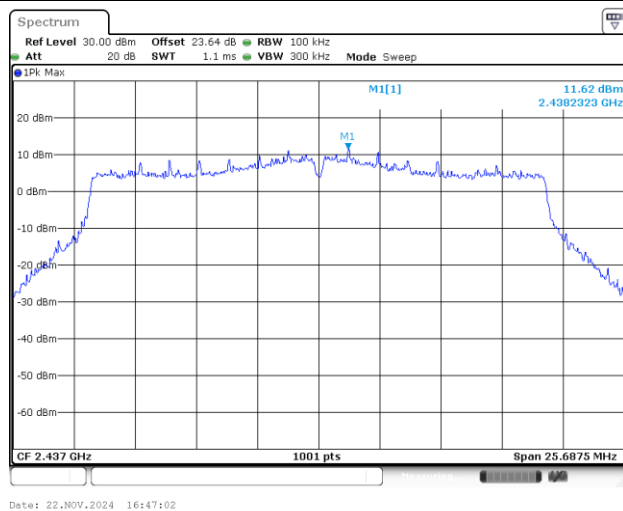
Date: 22.NOV.2024 16:44:41



Test Mode : 802.11be EHT20_FullIRU

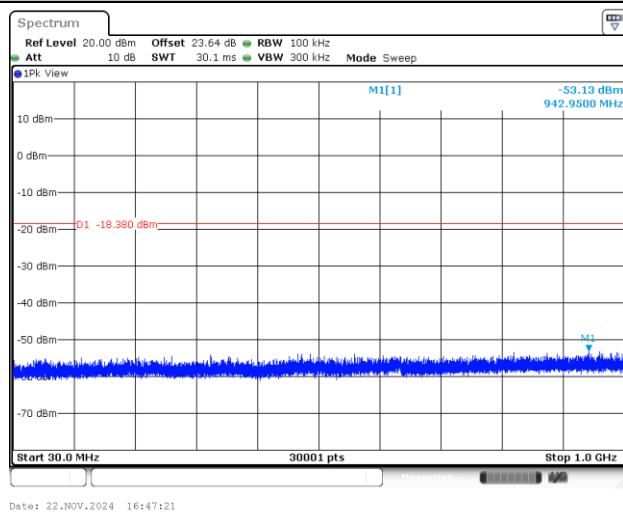
Test Channel : 06

100kHz PSD reference Level

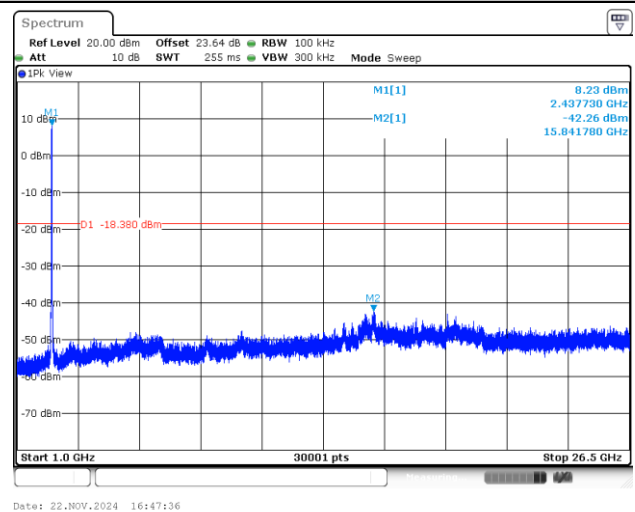


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

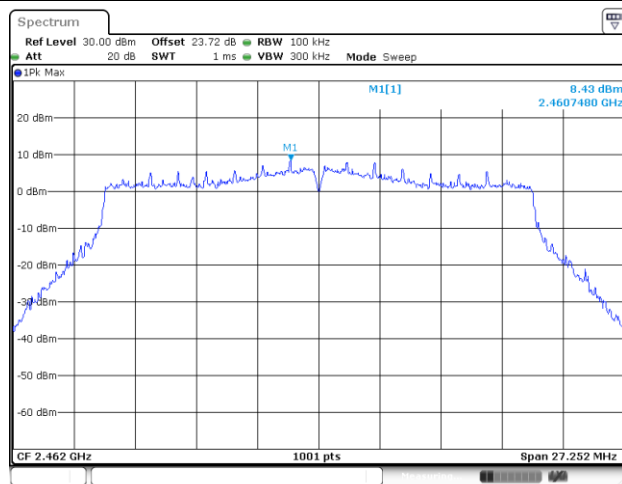




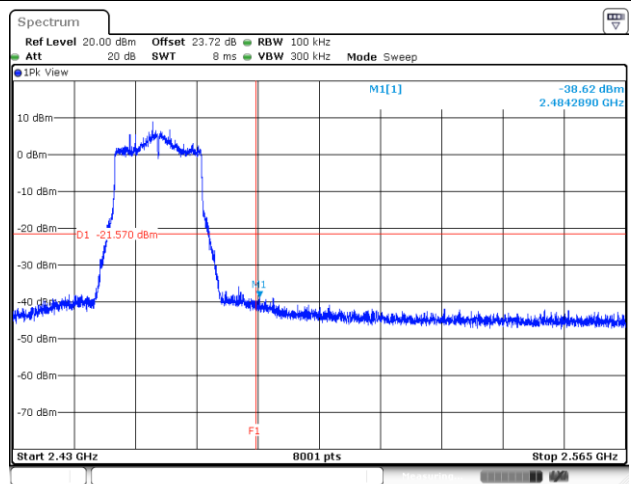
Test Mode : 802.11be EHT20_FullIRU

Test Channel : 11

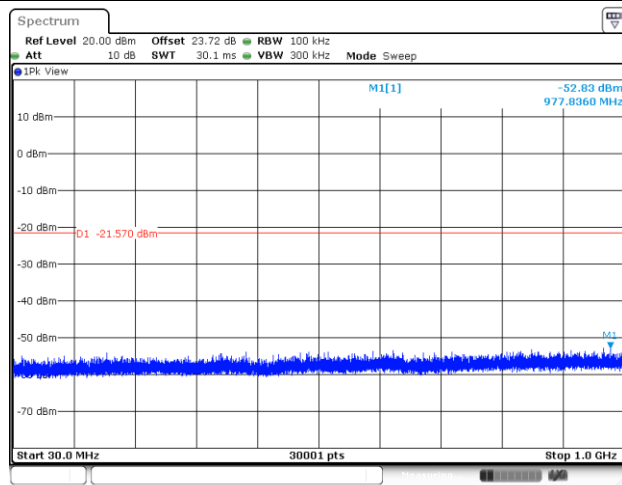
100kHz PSD reference Level



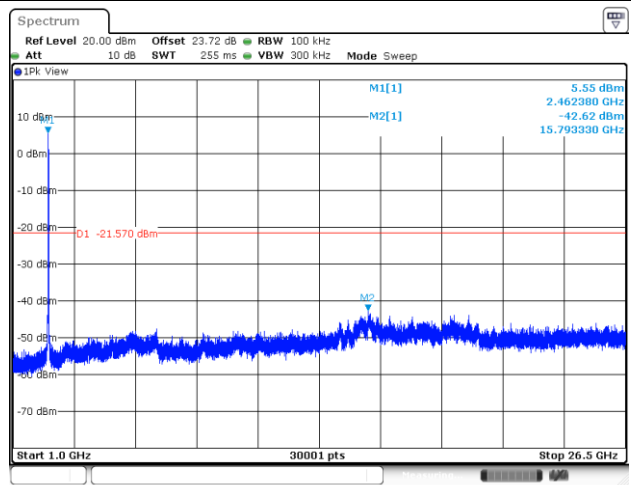
Channel 11 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

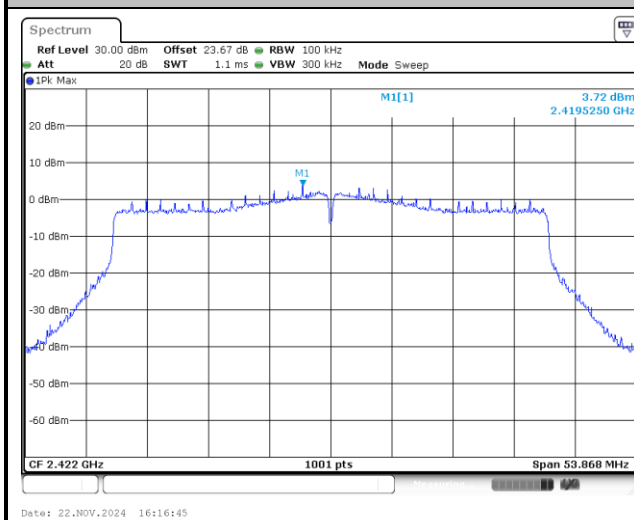




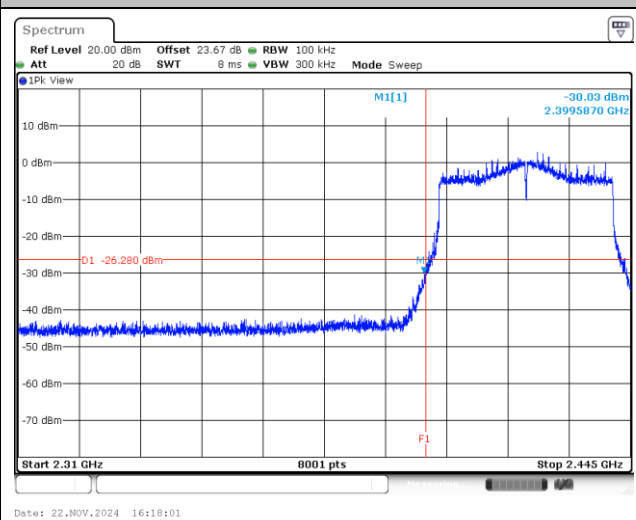
Test Mode : 802.11be EHT40_FullIRU

Test Channel : 03

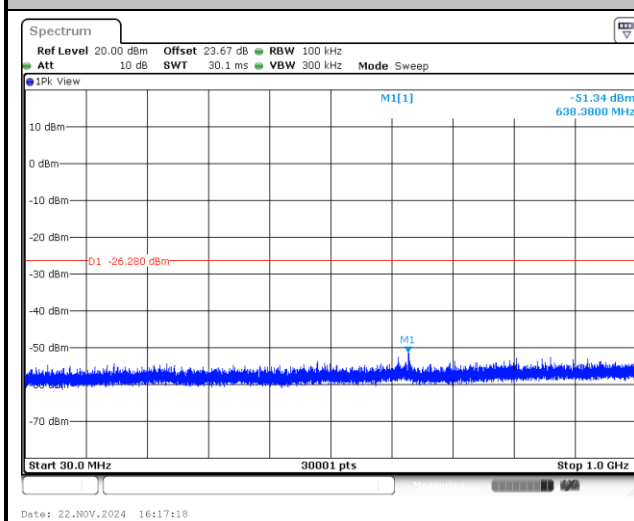
100kHz PSD reference Level



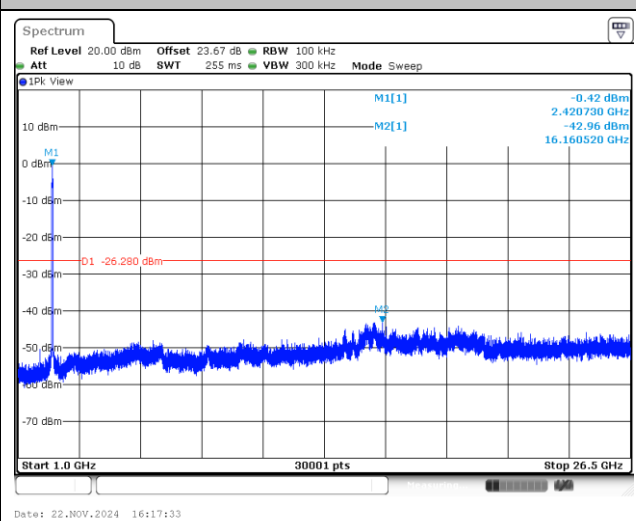
Channel 03 Plot



Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

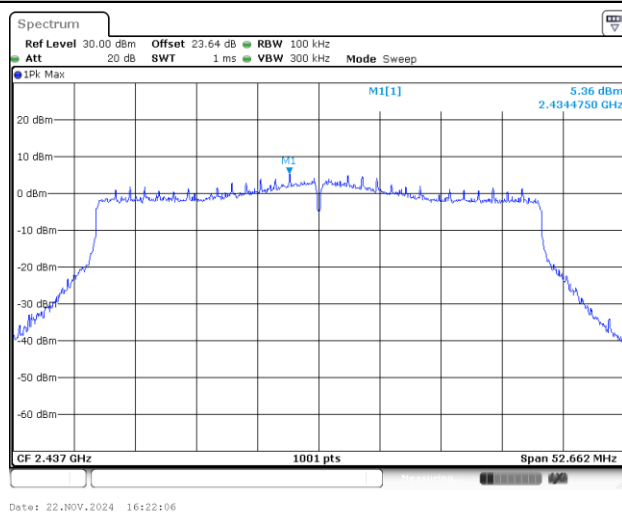




Test Mode : 802.11be EHT40_FullIRU

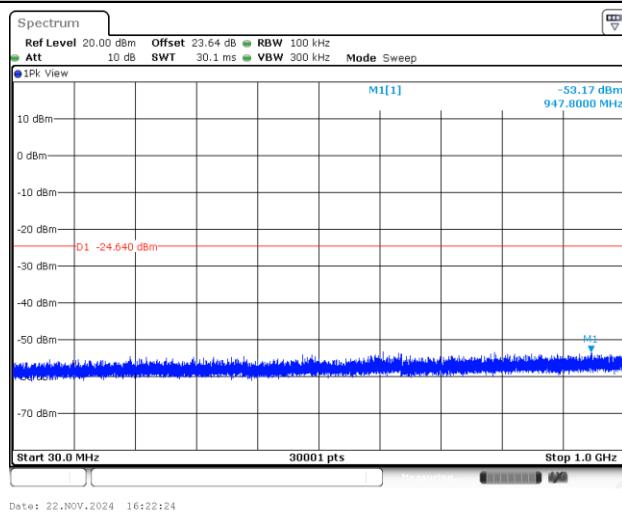
Test Channel : 06

100kHz PSD reference Level

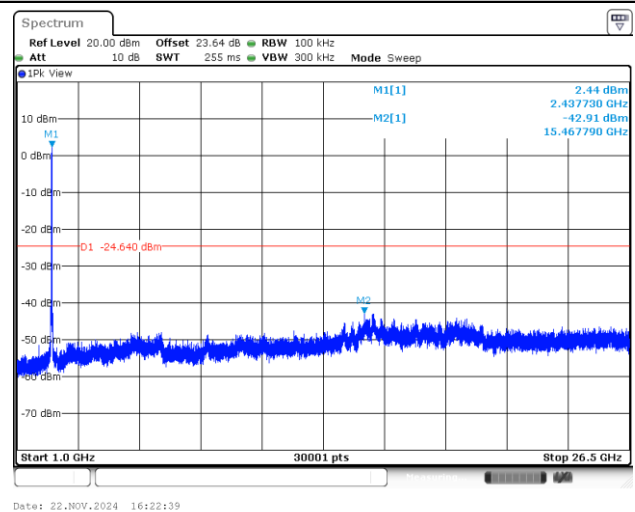


Channel 06 Plot

Spurious Emission 30MHz~1GHz



Spurious Emission 1GHz~26.5GHz

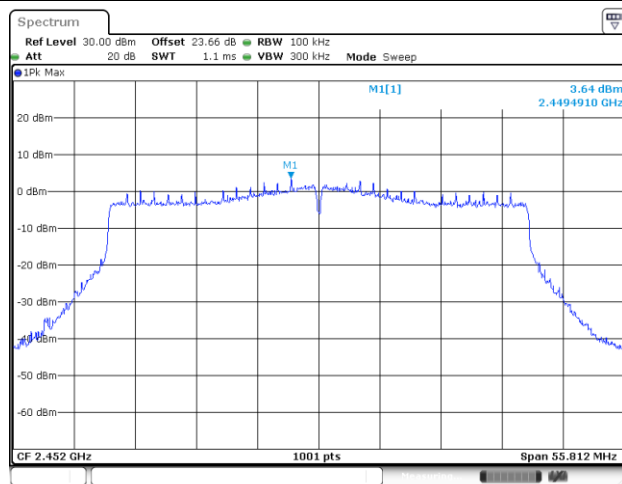




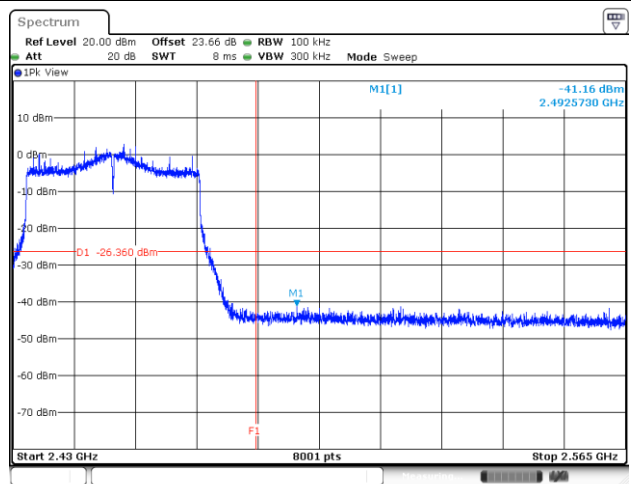
Test Mode : 802.11be EHT40_FullIRU

Test Channel : 09

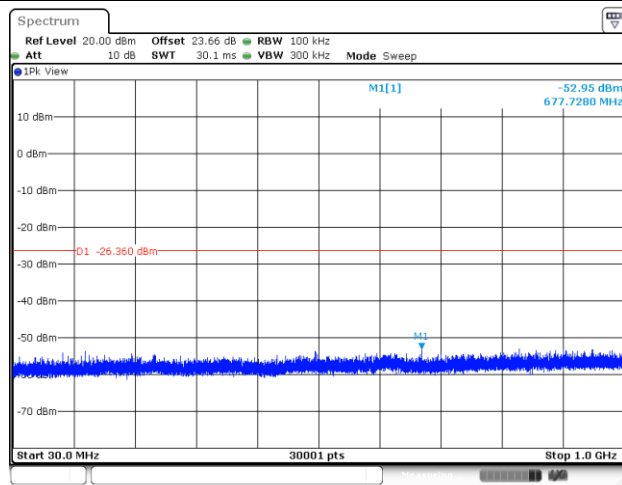
100kHz PSD reference Level



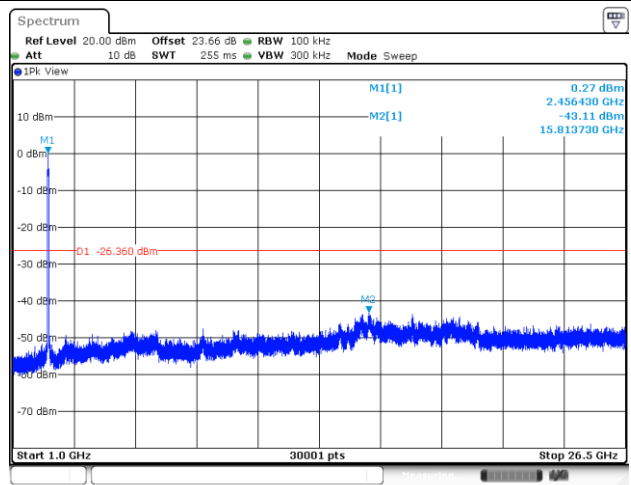
Channel 09 Plot



Spurious Emission 30MHz~1GHz



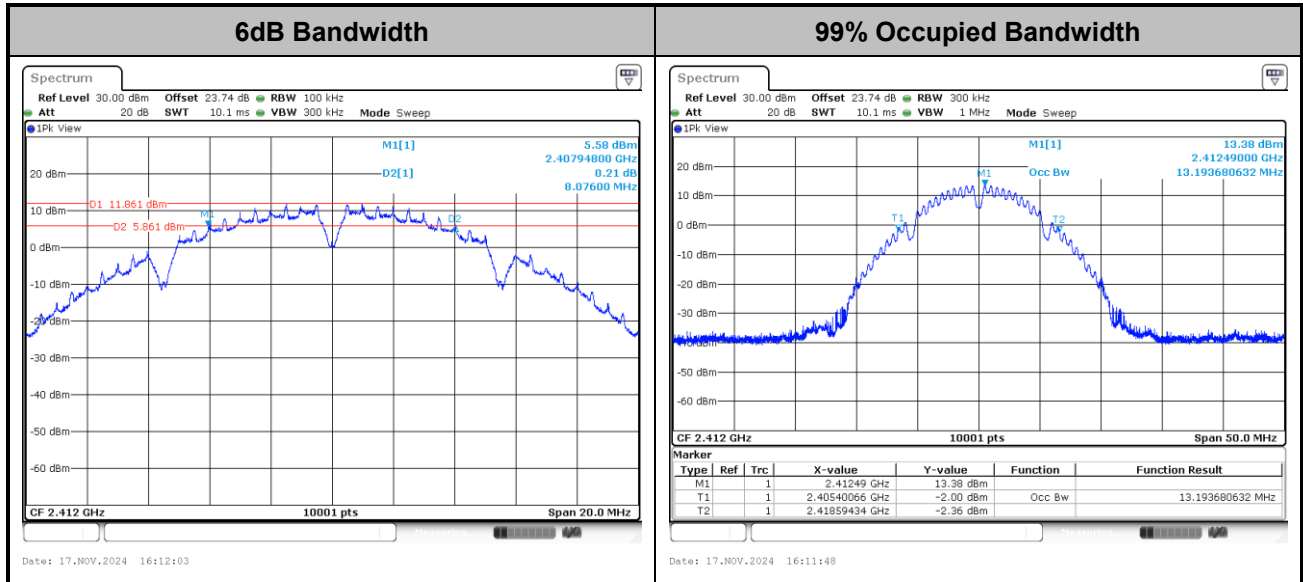
Spurious Emission 1GHz~26.5GHz



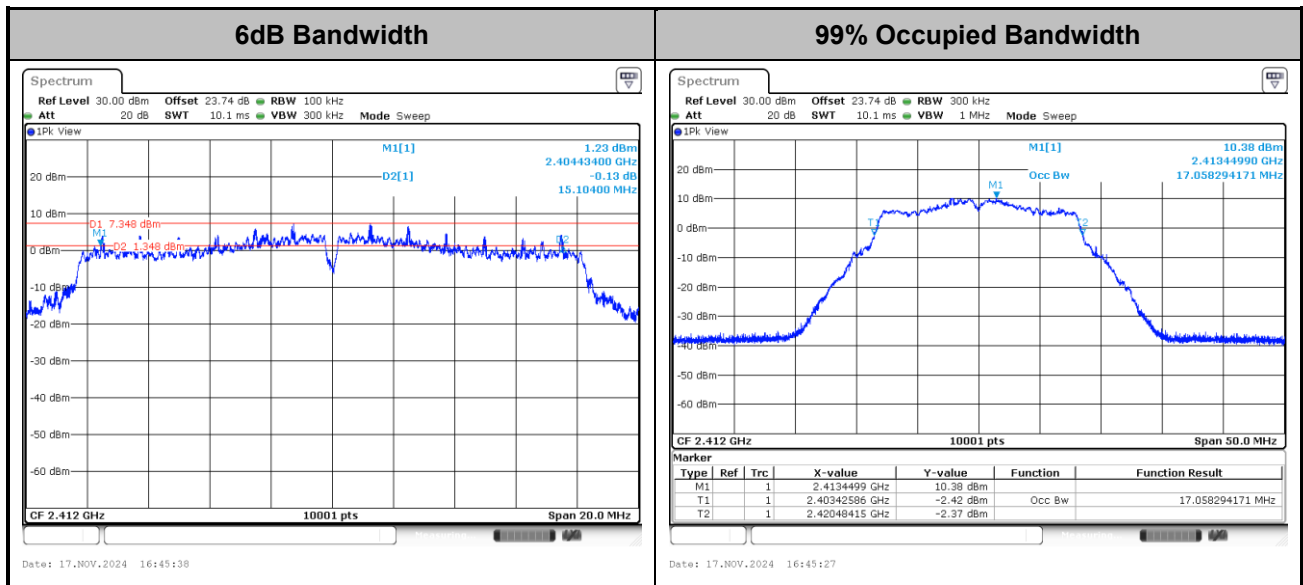
**6dB and 99% Occupied Bandwidth**

MIMO <Ant. 0+1>

<802.11b>

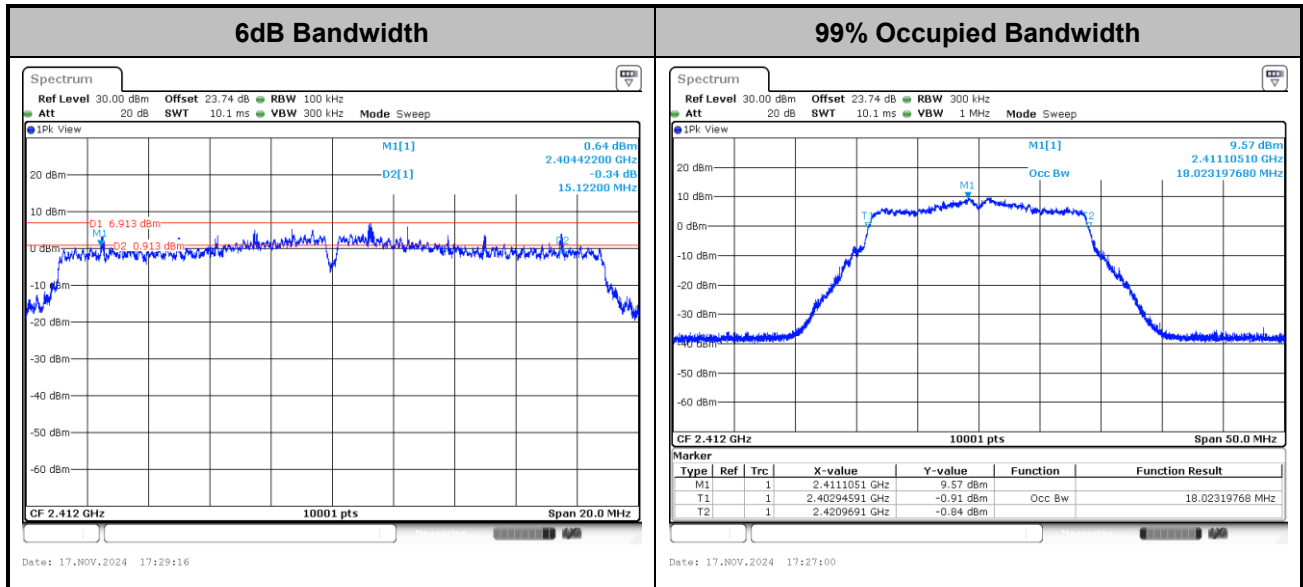


<802.11g>



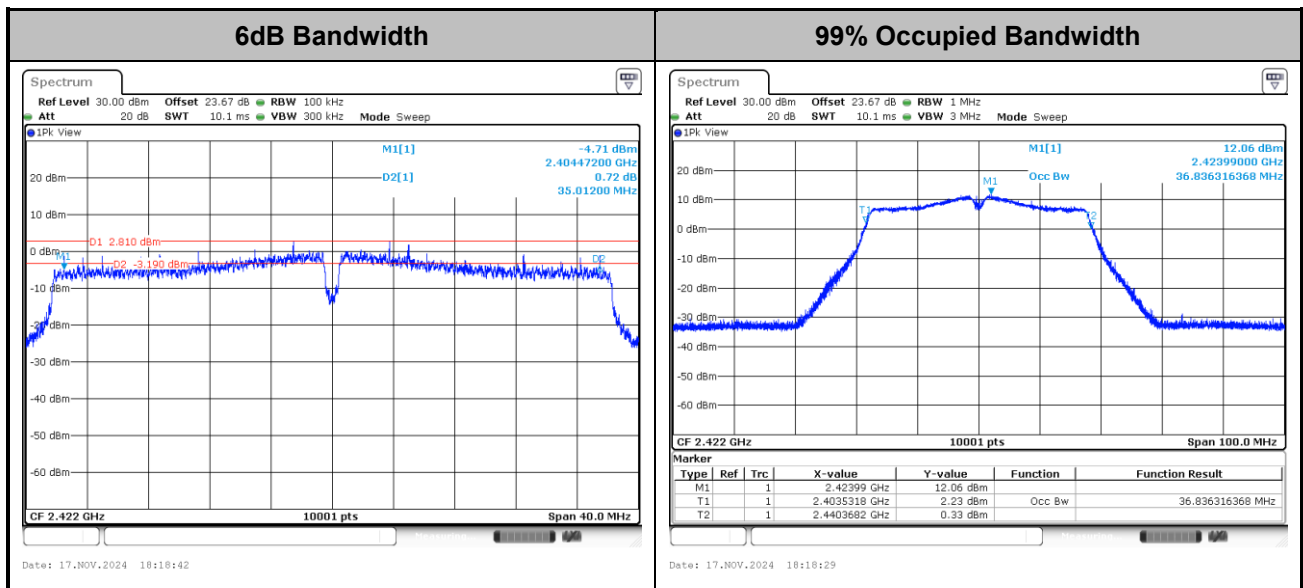


<802.11n HT20>



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

<802.11n HT40>



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