

TEST REPORT

Report No.	CISRR250919174
Project No.	CISR250919174
FCC ID	2BCMP-0166
Applicant	Ausek Limited
Address	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
Manufacturer	Ausek Limited
Address	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
Product Name	repeater
Trademark	-
Model/Type reference	0166
Listed Model(s)	0167,0168,0169.0070,0077,0085
Standard	47 CFR Part 15.247
Test date	September 22, 2025 to September 27, 2025
Issue date	September 28, 2025
Test result	Complied

Lucas Huang

Prepared by: Lucas Huang



Approved by: Hans Hu

The test results relate only to the tested samples.

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1. REPORT VERSION

Version No.	Issue date	Description
00	September 28, 2025	Original

2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d)	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description *

Main unit information:	
Product Name:	repeater
Trade Mark:	-
Model No.:	0166
Listed Model(s):	0167,0168,0169.0070,0077,0085
Model difference:	Only the model naming and color are different
Power supply:	AC 100-240V~,50/60Hz, 0.1A
Hardware version:	-
Software version:	-
Accessory unit (AU) information:	
Battery information:	-

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	External Antenna
Antenna gain:	2dBi

Note:

- 1) *: Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information, Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.

3.3. Modification of EUT

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

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

4. TEST CONFIGURATION

4.1. Test frequency list

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2437	2462
40	2422	2437	2452

4.2. Descriptions of test mode

No	Test mode	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel.
TM5	Link mode	Keep the EUT in WiFi linking mode with AE.

4.3. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	PC	Lenovo	ThinkPad

4.4. Test sample information

Type	Sample No.
Engineer sample	CISR250919174-S01
Normal sample	CISR250919174-S02

4.5. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB
2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	20dB Bandwidth	0.002%
5	Duty cycle	-
6	Conducted Band Edge and Spurious Emission	1.93dB
7	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz
8	Radiated Spurious Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipment Used during the Test

Conducted Emission at AC power line						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands 6dB Bandwidth						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2025-01-08	2026-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2025-01-08	2026-01-07
4	Power Meter	WCS	WCS-PM	WCSPM230405A	2025-01-08	2026-01-07

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G40	AP23A8060270	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP01018050	AP23A8060280	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	-	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
7	Bilog Antenna	Schwarzbeck	VULB9163	1463	2023-01-09	2026-01-08
8	Horn Antenna	SCHWARZBECK	BBHA9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB1519B	/	2023-01-09	2026-01-08
10	RF Cable	Tonscend	Cable 1	/	2025-01-08	2026-01-07
11	RF Cable	Tonscend	Cable 2	/	2025-01-08	2026-01-07
12	RF Cable	SKET	Cable 3	/	2025-01-08	2026-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK8127	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA9170	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP18040048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT-BS	AT2021040101-V1	2025-01-08	2026-01-07

5. TEST RESULTS

5.1. Evaluation Results (Evaluation)

5.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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.
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5.1.1.1. Test Result

Pass

5.1.1.2. Conclusion:

The EUT antenna is External Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.

5.2. Radio Spectrum Matter Test Results (RF)

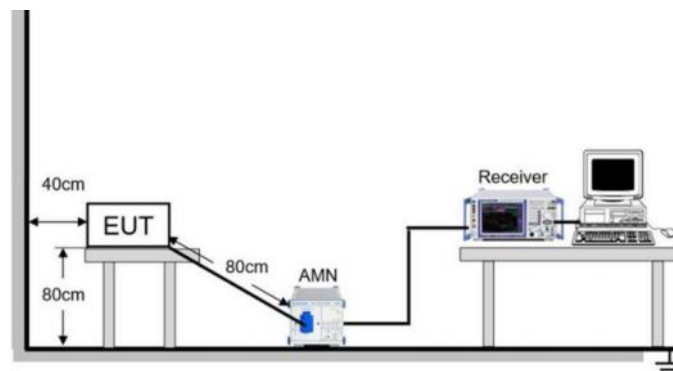
5.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	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.			
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	1>. The EUT was setup according to ANSI C63.10 requirements. 2>. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. 3>. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. 4>. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) 5>. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. 6>. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. 7>. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. 8>. During the above scans, the emissions were maximized by cable manipulation.		

5.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.8 °C	Humidity:	55.7 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM5				
Final test mode:	TM5				

5.2.1.2. Test Setup Diagram

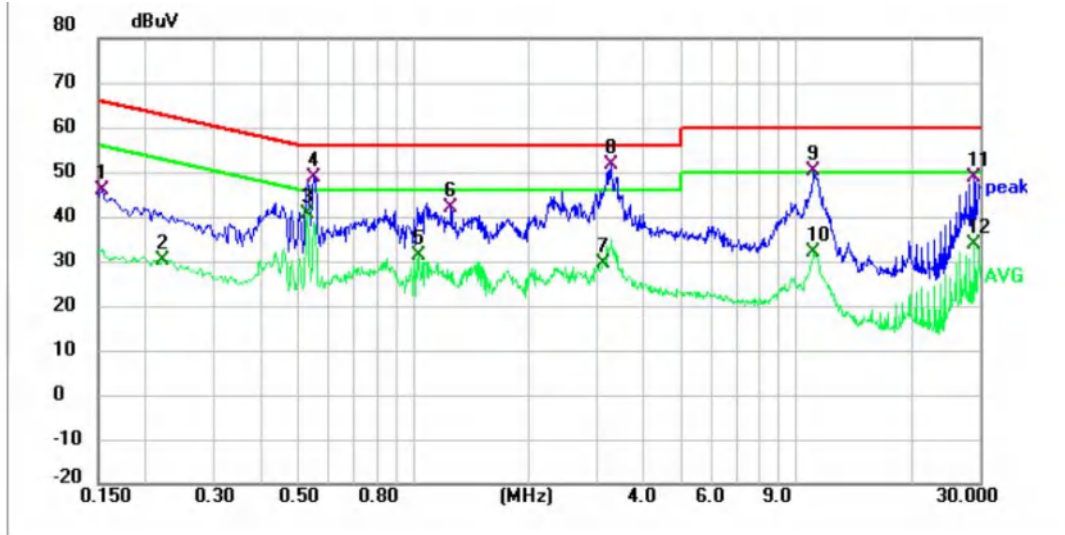


5.2.1.3. Test Result

Pass

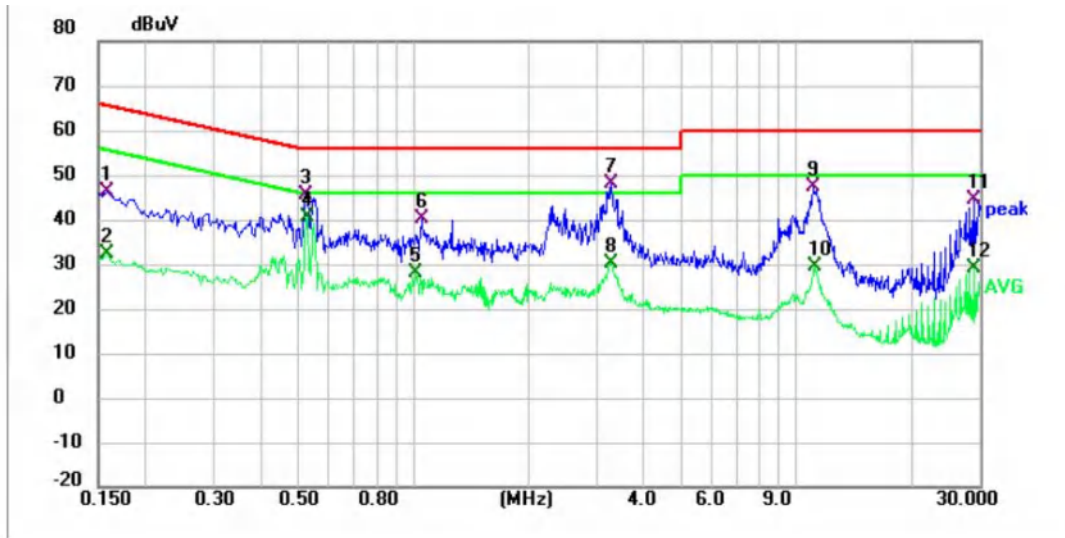
5.2.1.4. Test Data

Mode5 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	35.67	10.20	45.87	65.79	19.92	QP
2	0.2220	20.13	10.17	30.30	52.74	22.44	AVG
3	0.5260	30.24	10.16	40.40	46.00	5.60	AVG
4	0.5500	38.52	10.16	48.68	56.00	7.32	QP
5	1.0300	20.99	10.19	31.18	46.00	14.82	AVG
6	1.2540	31.63	10.21	41.84	56.00	14.16	QP
7	3.1460	19.23	10.31	29.54	46.00	16.46	AVG
8 *	3.2860	41.37	10.32	51.69	56.00	4.31	QP
9	11.1260	39.60	10.42	50.02	60.00	9.98	QP
10	11.1260	21.67	10.42	32.09	50.00	17.91	AVG
11	29.2020	37.74	10.88	48.62	60.00	11.38	QP
12	29.2020	22.73	10.88	33.61	50.00	16.39	AVG

Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	36.02	10.16	46.18	65.57	19.39	QP
2	0.1580	22.13	10.16	32.29	55.57	23.28	AVG
3	0.5220	35.36	10.12	45.48	56.00	10.52	QP
4 *	0.5260	30.52	10.12	40.64	46.00	5.36	AVG
5	1.0180	18.00	10.16	28.16	46.00	17.84	AVG
6	1.0540	29.86	10.16	40.02	56.00	15.98	QP
7	3.2820	37.78	10.30	48.08	56.00	7.92	QP
8	3.3100	19.95	10.30	30.25	46.00	15.75	AVG
9	11.0900	36.80	10.40	47.20	60.00	12.80	QP
10	11.1820	18.98	10.41	29.39	50.00	20.61	AVG
11	29.1900	33.75	10.85	44.60	60.00	15.40	QP
12	29.1900	18.30	10.85	29.15	50.00	20.85	AVG

Note:

1>. Level = Reading +Factor (Voltage Division Coefficient + Cable Loss + Attenuator Factor)

2>. Margin = Limit - Level

5.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: - Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. - Set the VBW $\geq [3 \times \text{RBW}]$. - Detector = peak. - Trace mode = max-hold. - Sweep = No faster than coupled (auto) time. - Allow the trace to stabilize. - Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	23 °C	Humidity:	55.9 %	Atmospheric Pressure:	102.5 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.2.2. Test Setup Diagram



5.2.2.3. Test Result

Pass

5.2.2.4. Test Data

Please Refer to Appendix for Details.

5.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.4 °C	Humidity:	55.9 %	Atmospheric Pressure:	102.5 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.3.2. Test Setup Diagram



5.2.3.3. Test Result

Pass

5.2.3.4. Test Data

Please Refer to Appendix for Details.

5.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

5.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.2 %	Atmospheric Pressure:	102.5 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.4.2. Test Setup Diagram



5.2.4.3. Test Result

Pass

5.2.4.4. Test Data

Please Refer to Appendix for Details.

5.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

5.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.3 °C	Humidity:	56.2 %	Atmospheric Pressure:	102.5 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.5.2. Test Setup Diagram



5.2.5.3. Test Result

Pass

5.2.5.4. Test Data

Please Refer to Appendix for Details.

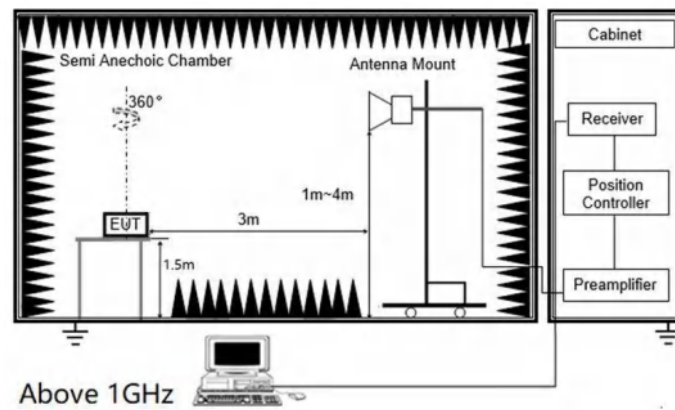
5.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	1>. EUT was setup and tested according to ANSI C63.10 . 2>. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. 4>. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. 5>. Use the following spectrum analyzer settings: a) Span shall wide enough to fully capture the emission being measured b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Average level = Peak level + DCCF		

5.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.2 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM1) is recorded in the report				

5.2.6.2. Test Setup Diagram



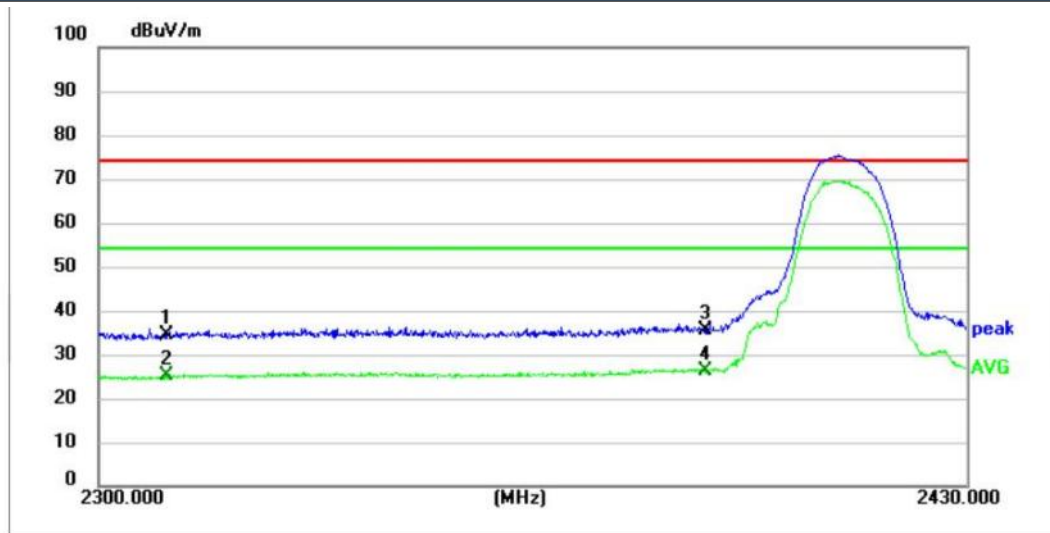
5.2.6.3. Test Result

Pass

5.2.6.4. Test Data

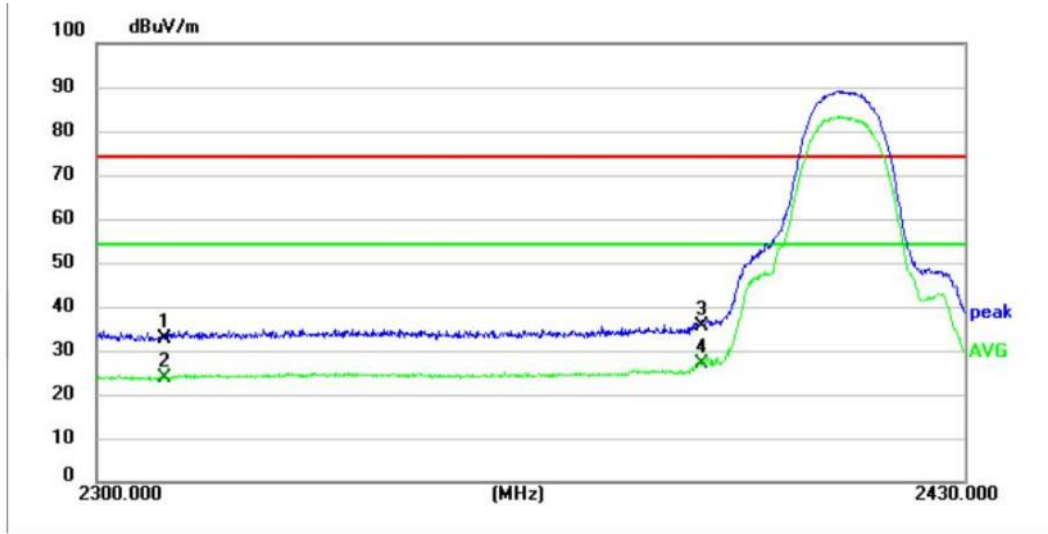
Three antennas pre-scanned; Ant 2 performed worst, so only its data is shown in the report.

TM1 / Polarization: Horizontal / CH: L



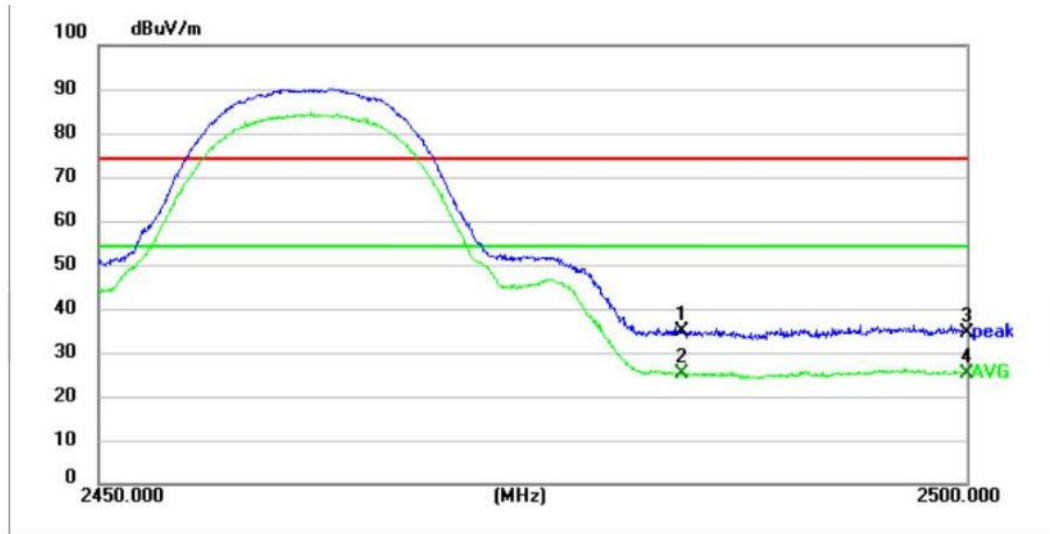
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.90	-17.52	34.38	74.00	39.62	peak
2	2310.0000	42.64	-17.52	25.12	54.00	28.88	AVG
3	2390.0000	52.72	-17.32	35.40	74.00	38.60	peak
4 *	2390.0000	43.73	-17.32	26.41	54.00	27.59	AVG

TM1 / Polarization: Vertical / CH: L



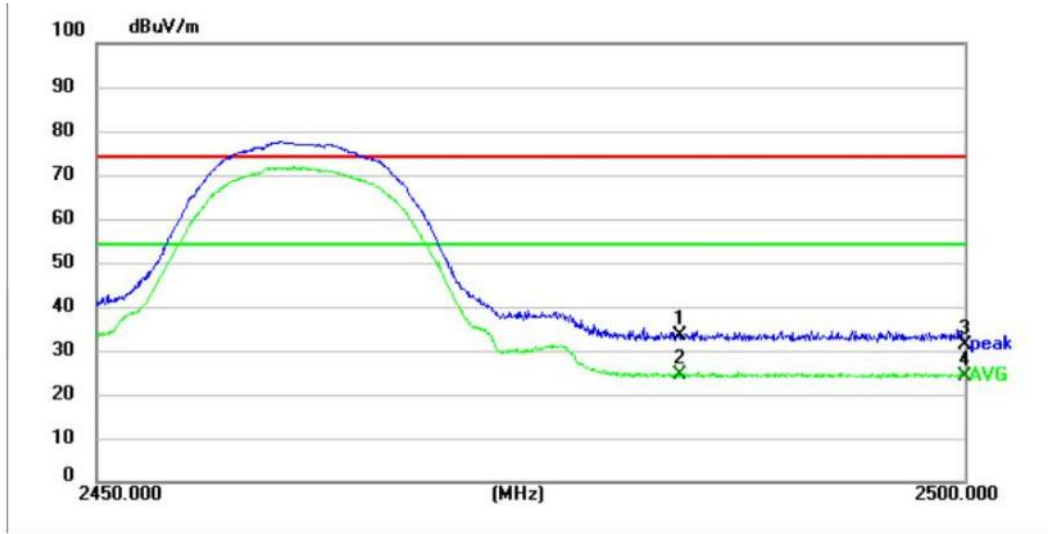
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	50.31	-17.52	32.79	74.00	41.21	peak
2	2310.0000	41.23	-17.52	23.71	54.00	30.29	AVG
3	2390.0000	52.99	-17.32	35.67	74.00	38.33	peak
4 *	2390.0000	44.29	-17.32	26.97	54.00	27.03	AVG

TM1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	51.73	-17.03	34.70	74.00	39.30	peak
2 *	2483.5000	42.31	-17.03	25.28	54.00	28.72	AVG
3	2500.0000	51.40	-16.94	34.46	74.00	39.54	peak
4	2500.0000	42.18	-16.94	25.24	54.00	28.76	AVG

TM1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	50.50	-17.03	33.47	74.00	40.53	peak
2 *	2483.5000	41.47	-17.03	24.44	54.00	29.56	AVG
3	2500.0000	48.34	-16.94	31.40	74.00	42.60	peak
4	2500.0000	41.04	-16.94	24.10	54.00	29.90	AVG

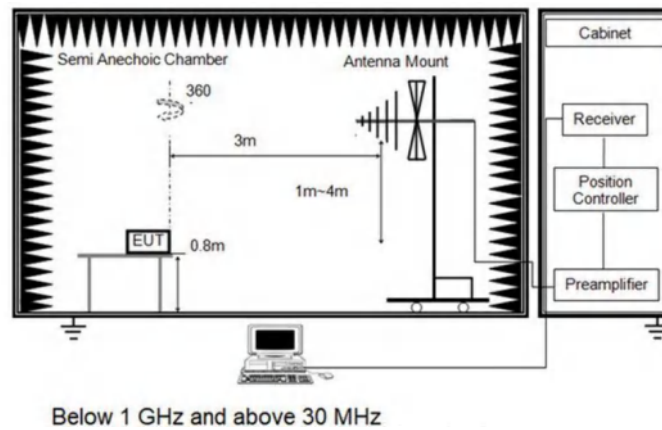
5.2.7. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	1>. The EUT was setup and tested according to ANSI C63.10. 2>. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5>. Set to the maximum power setting and enable the EUT transmit continuously. 6>. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.		

5.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.9 °C	Humidity:	56.9 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM1) is recorded in the report				

5.2.7.2. Test Setup Diagram



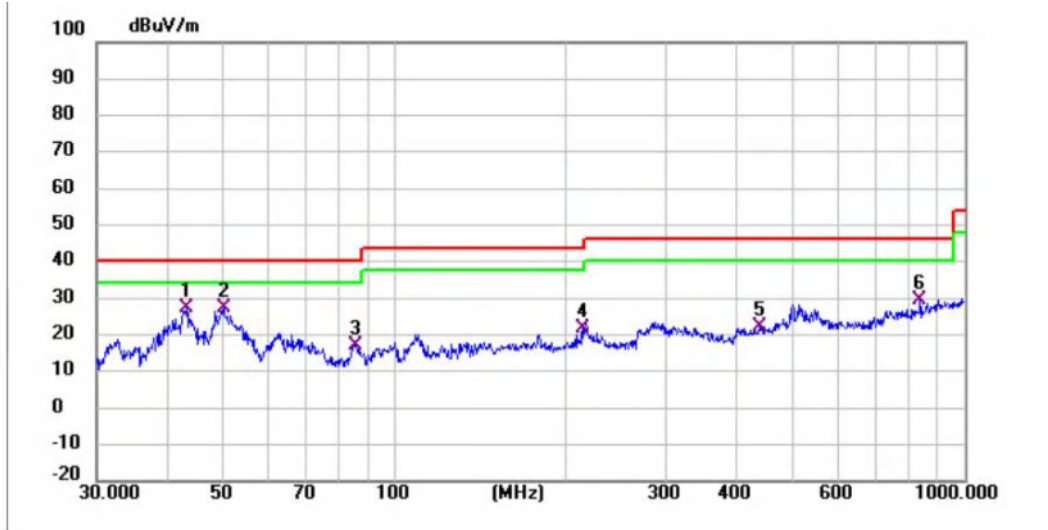
5.2.7.3. Test Result

Pass

5.2.7.4. Test Data

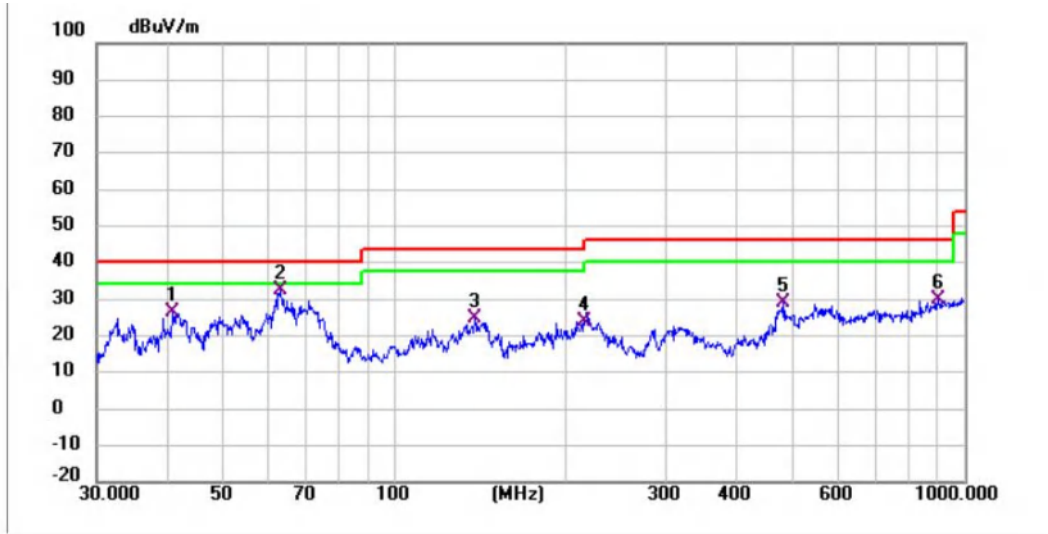
Three antennas pre-scanned; Ant 2 performed worst, so only its data is shown in the report.

TM1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	43.0504	57.24	-29.94	27.30	40.00	12.70	QP
2	50.2323	56.40	-29.13	27.27	40.00	12.73	QP
3	85.5973	50.68	-33.49	17.19	40.00	22.81	QP
4	213.7632	50.42	-28.62	21.80	43.50	21.70	QP
5	437.1200	45.27	-22.88	22.39	46.00	23.61	QP
6	836.2441	45.27	-15.64	29.63	46.00	16.37	QP

TM1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8444	57.05	-30.59	26.46	40.00	13.54	QP
2 *	63.0915	63.65	-31.18	32.47	40.00	7.53	QP
3	138.3873	58.40	-33.45	24.95	43.50	18.55	QP
4	215.2675	52.58	-28.59	23.99	43.50	19.51	QP
5	482.2155	50.58	-21.51	29.07	46.00	16.93	QP
6	903.3093	44.51	-14.40	30.11	46.00	15.89	QP

Note:

1>. For 9 kHz ~ 30 MHz Measurement

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

2>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)

3>. Margin = Limit – Level

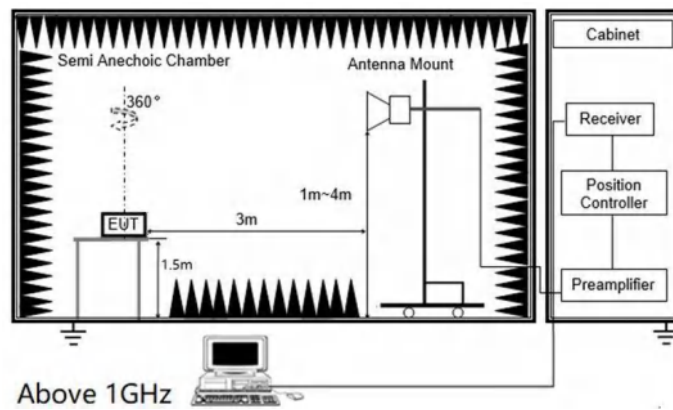
5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	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
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	1>. The EUT was setup and tested according to ANSI C63.10. 2>. The EUT is placed on a turn table which is 0.8 meter above ground for 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3>. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4>. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5>. Set to the maximum power setting and enable the EUT transmit continuously. 6>. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) Set RBW=1MHz, VBW=3MHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF) Average level = Peak level + DCCF		

5.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.1 °C	Humidity:	55.3 %	Atmospheric Pressure:	102.4 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM1) is recorded in the report				

5.2.8.2. Test Setup Diagram



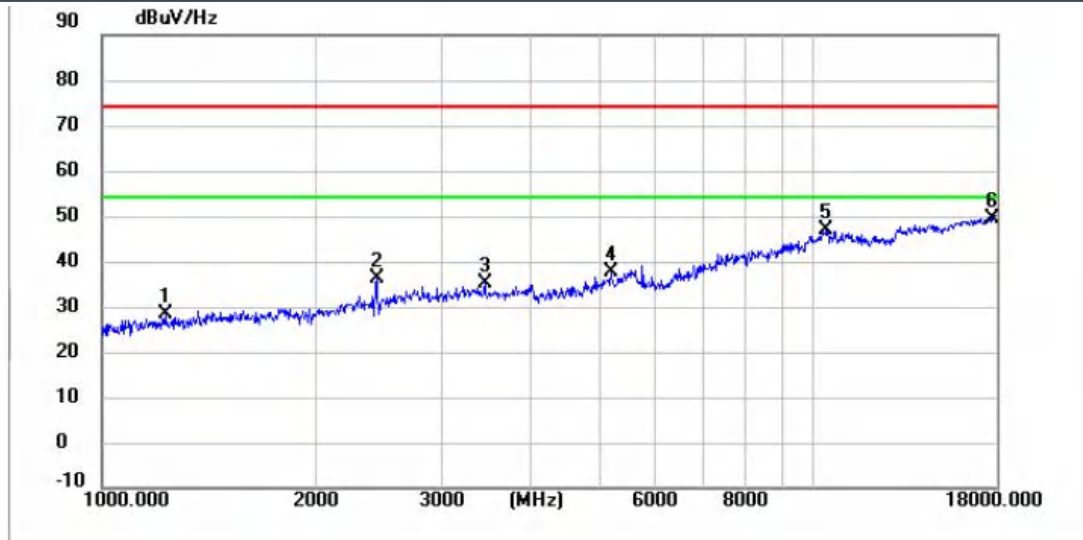
5.2.8.3. Test Result

Pass

5.2.8.4. Test Data

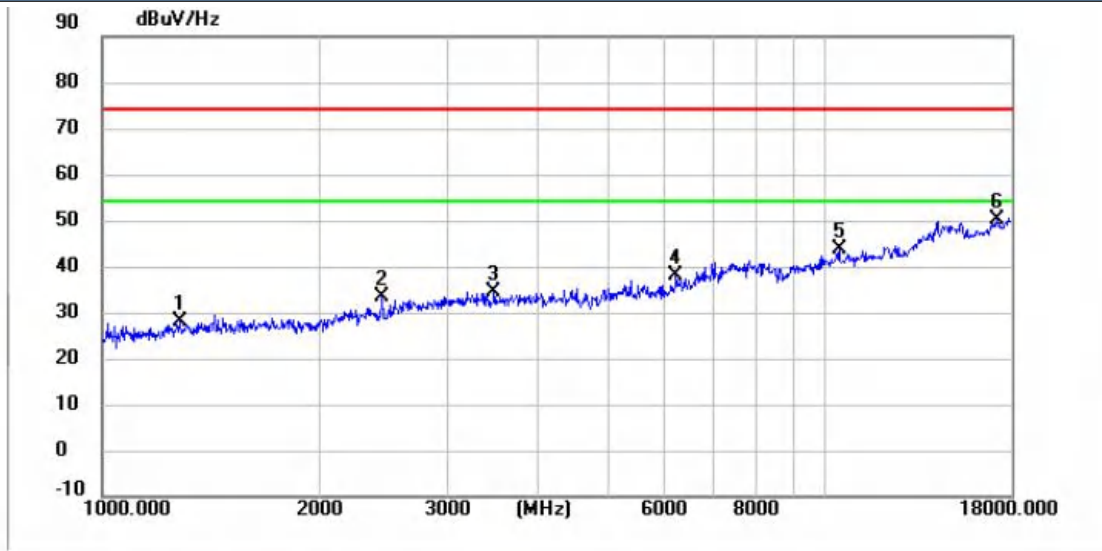
Three antennas pre-scanned; Ant 2 performed worst, so only its data is shown in the report.

TM1 / Polarization: Horizontal / CH: L



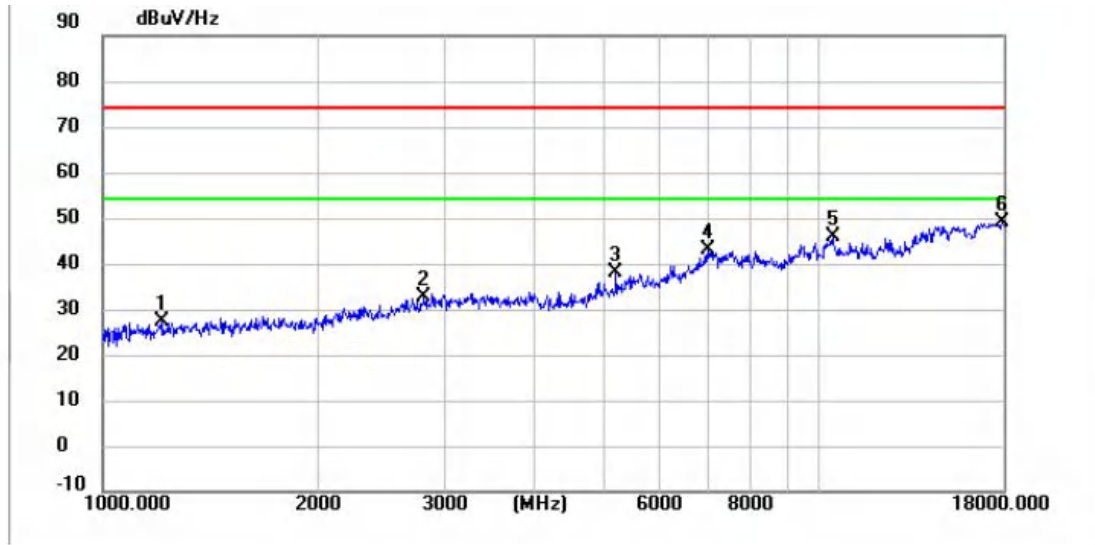
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1229.5000	49.63	-21.41	28.22	74.00	45.78	peak
2	2429.7000	53.33	-17.24	36.09	74.00	37.91	peak
3	3448.0000	49.09	-13.75	35.34	74.00	38.66	peak
4	5193.9000	45.73	-8.00	37.73	74.00	36.27	peak
5	10411.2000	35.11	11.78	46.89	74.00	27.11	peak
6 *	17807.9000	26.79	22.62	49.41	74.00	24.59	peak

TM1 / Polarization: Vertical / CH: L



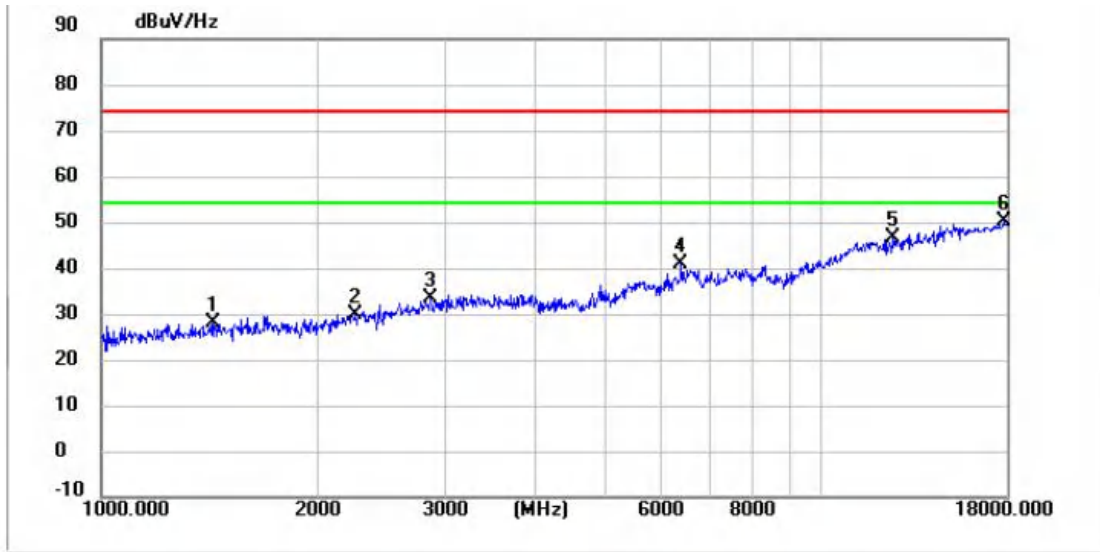
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1280.5000	49.31	-21.32	27.99	74.00	46.01	peak
2	2436.5000	50.66	-17.23	33.43	74.00	40.57	peak
3	3480.3000	48.21	-13.76	34.45	74.00	39.55	peak
4	6212.2000	41.62	-3.72	37.90	74.00	36.10	peak
5	10431.6000	31.85	11.82	43.67	74.00	30.33	peak
6 *	17243.5000	31.09	19.10	50.19	74.00	23.81	peak

TM1 / Polarization: Horizontal / CH: M



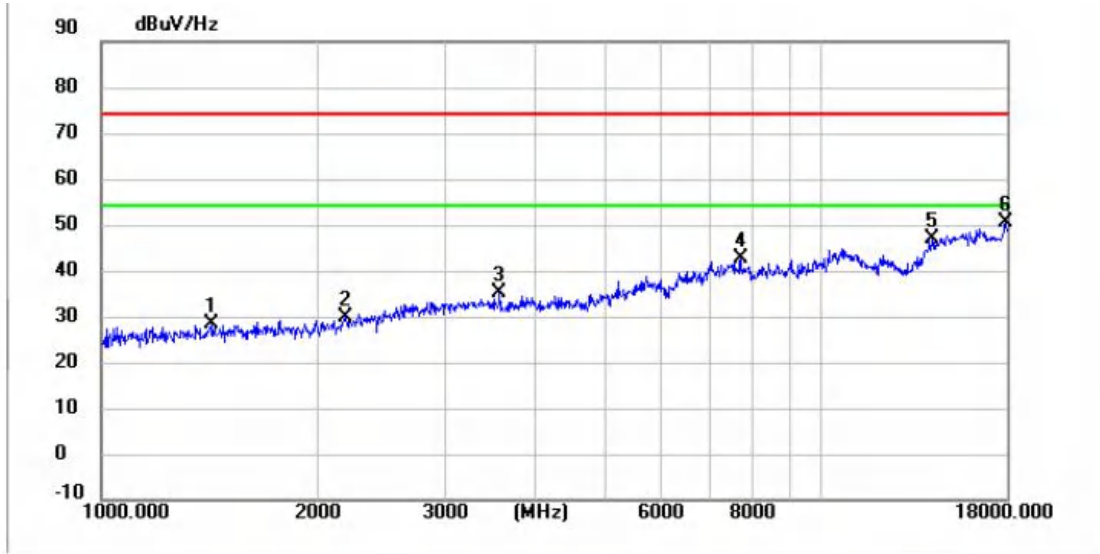
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1209.1000	48.89	-21.45	27.44	74.00	46.56	peak
2	2808.8000	47.87	-15.30	32.57	74.00	41.43	peak
3	5204.1000	46.05	-7.97	38.08	74.00	35.92	peak
4	6992.5000	39.29	3.59	42.88	74.00	31.12	peak
5	10448.6000	34.08	11.86	45.94	74.00	28.06	peak
6 *	17952.4000	25.24	23.78	49.02	74.00	24.98	peak

TM1 / Polarization: Vertical / CH: M



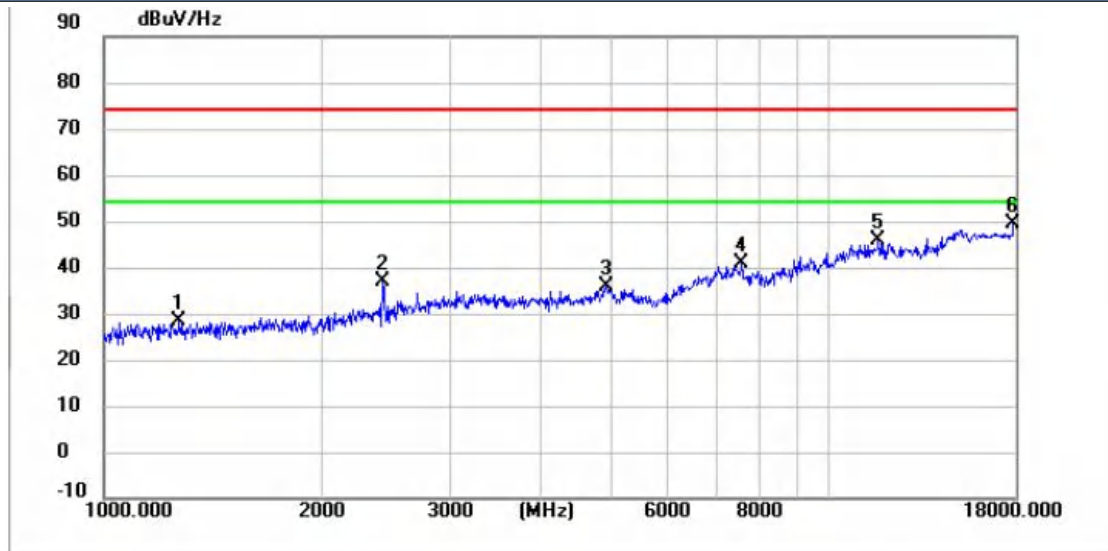
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1433.5000	49.10	-20.92	28.18	74.00	45.82	peak
2	2252.9000	47.64	-17.69	29.95	74.00	44.05	peak
3	2861.5000	48.55	-15.15	33.40	74.00	40.60	peak
4	6368.6000	43.08	-2.14	40.94	74.00	33.06	peak
5	12512.4000	31.68	15.02	46.70	74.00	27.30	peak
6 *	17898.0000	26.79	23.38	50.17	74.00	23.83	peak

TM1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1419.9000	49.24	-20.99	28.25	74.00	45.75	peak
2	2176.4000	47.57	-17.89	29.68	74.00	44.32	peak
3	3572.1000	48.76	-13.53	35.23	74.00	38.77	peak
4	7698.0000	36.75	5.78	42.53	74.00	31.47	peak
5	14185.2000	28.49	18.62	47.11	74.00	26.89	peak
6 *	17971.1000	26.48	23.92	50.40	74.00	23.60	peak

TM1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1272.0000	49.64	-21.33	28.31	74.00	45.69	peak
2	2428.0000	54.08	-17.24	36.84	74.00	37.16	peak
3	4940.6000	44.93	-9.15	35.78	74.00	38.22	peak
4	7577.3000	35.16	5.59	40.75	74.00	33.25	peak
5	11682.8000	31.74	14.10	45.84	74.00	28.16	peak
6 *	17913.3000	26.07	23.49	49.56	74.00	24.44	peak

Note:

1>. Level= Reading + Factor (Antenna Factor+ Cable Loss- Preamp Factor)

2>. Margin = Limit – Level

3>. Average measurement was not performed if peak level is lower than average limit (54dBuV/m) above 1GHz.

6. Appendix Report

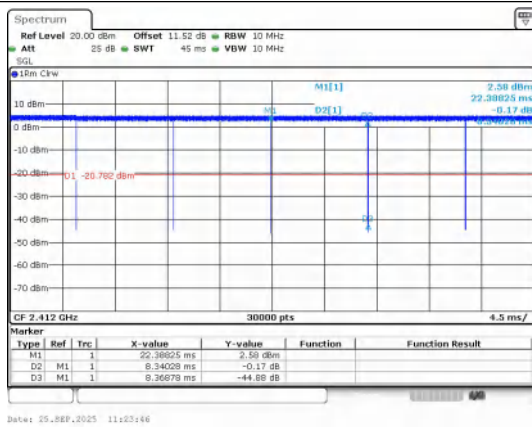
6.1. Duty Cycle

Ant1:

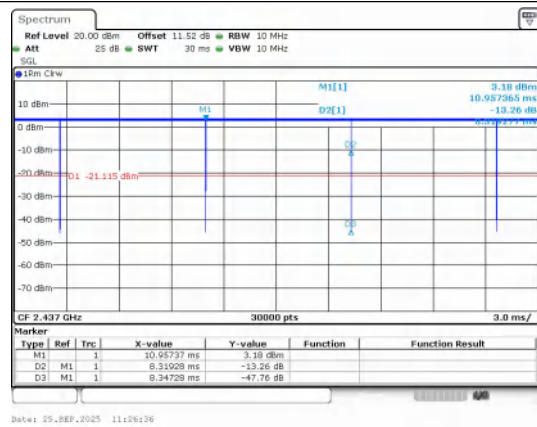
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.342	8.370	99.66	0.9966	0.0148	0.1199
IEEE 802.11g		1		1.395	1.429	97.62	0.9762	0.1046	0.7168
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.292	1.326	97.44	0.9744	0.1126	0.7740
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.304	1.338	97.46	0.9746	0.1117	0.7669
IEEE 802.11n_40		3		0.650	0.684	95.00	0.9500	0.2228	1.5385
		6		0.650	0.684	95.00	0.9500	0.2228	1.5385
		9		0.650	0.684	94.94	0.9494	0.2255	1.5385

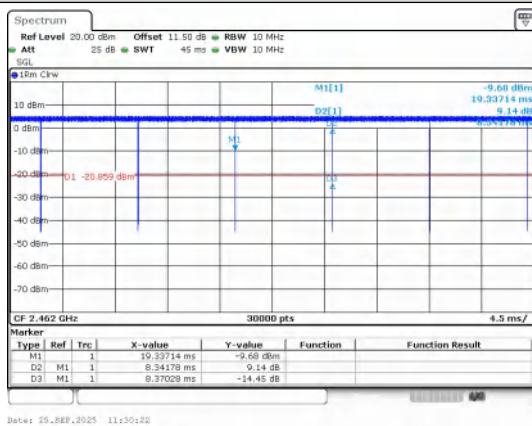
Test Graphs



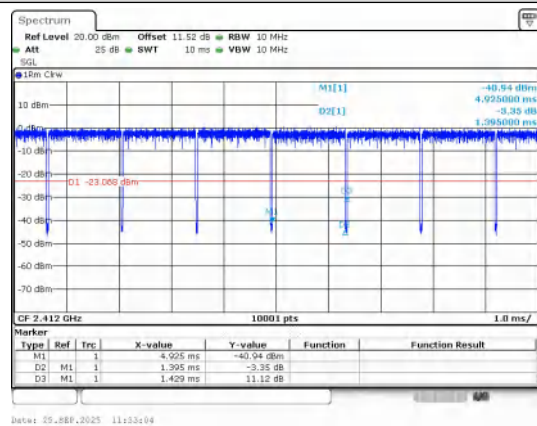
IEEE 802.11b_20MHz_Channel 1



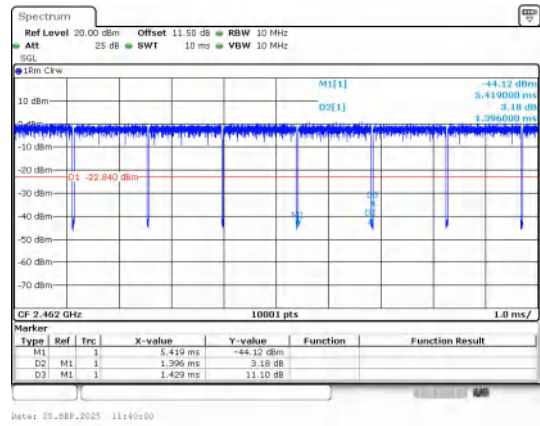
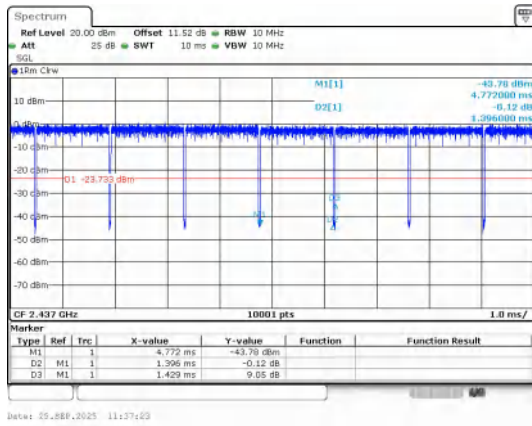
IEEE 802.11b_20MHz_Channel 6



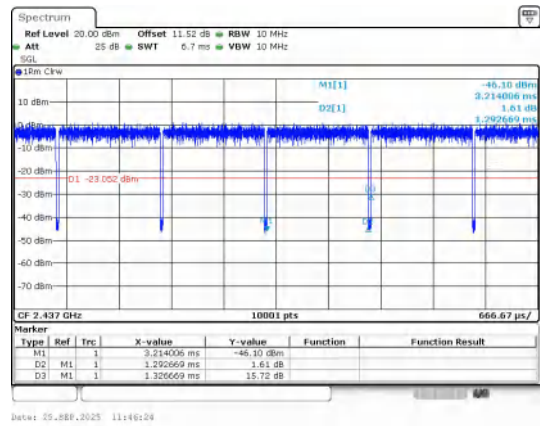
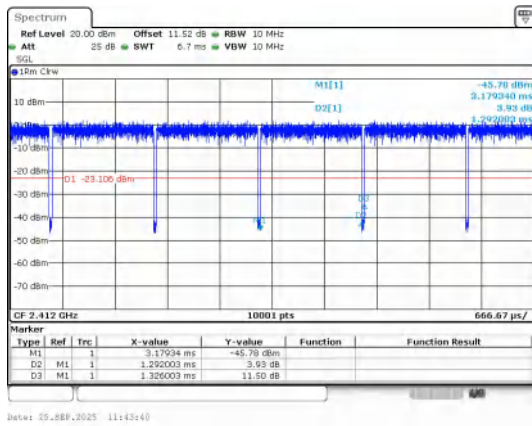
IEEE 802.11b_20MHz_Channel 11



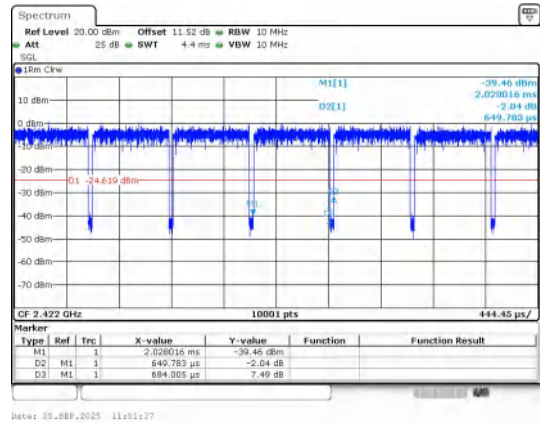
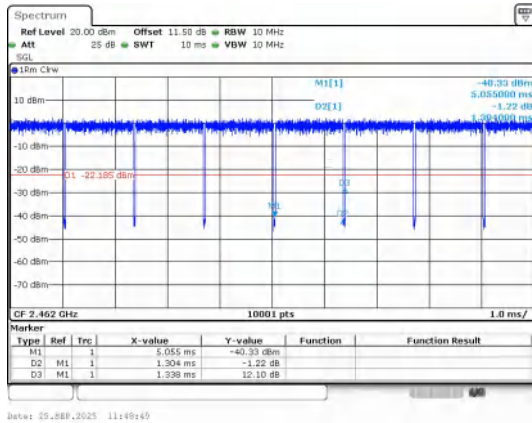
IEEE 802.11g_20MHz_Channel 1



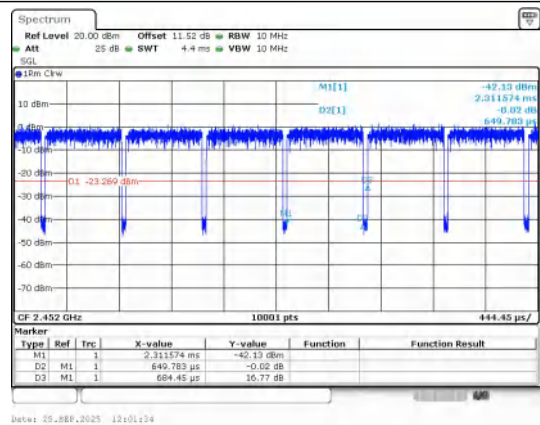
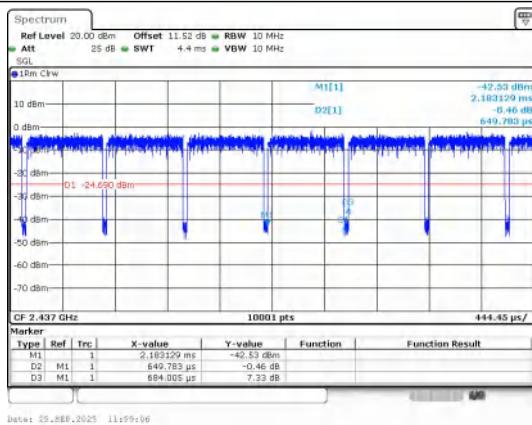
IEEE 802.11g_20MHz_Channel 6



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 11



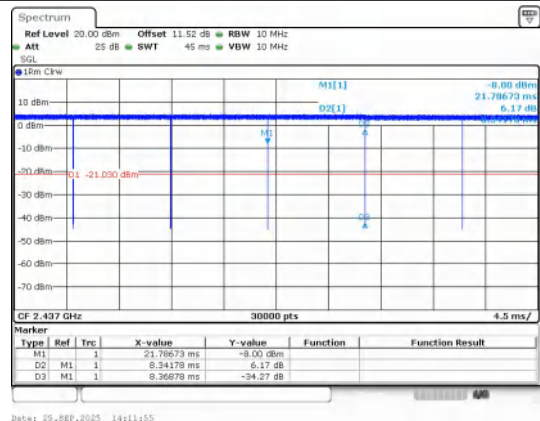
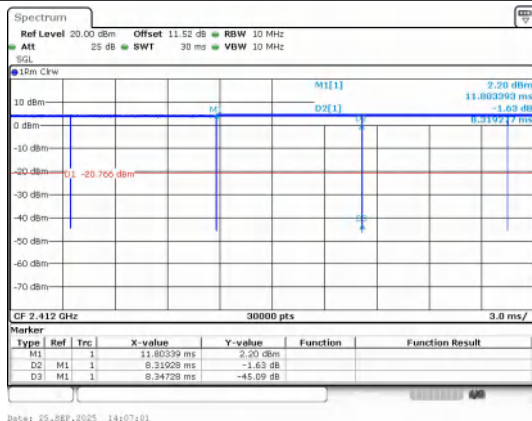
IEEE 802.11n_40MHz_Channel 6

IEEE 802.11n_40MHz_Channel 9

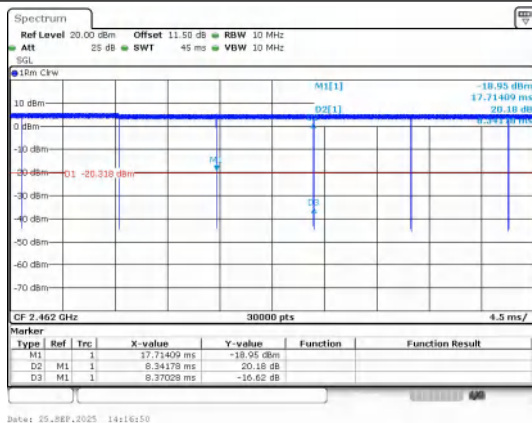
Ant2: Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	2	8.319	8.347	99.66	0.9966	0.0148	0.1202
		6		8.342	8.369	99.68	0.9968	0.0139	0.1199
		11		8.342	8.370	99.66	0.9966	0.0148	0.1199
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.303	1.337	97.46	0.9746	0.1117	0.7675
		11		1.292	1.326	97.44	0.9744	0.1126	0.7740
IEEE 802.11n_40		3	0.650	0.684	94.94	0.9494	0.2255	1.5385	
		6	0.650	0.684	94.94	0.9494	0.2255	1.5385	
		9	0.650	0.684	94.94	0.9494	0.2255	1.5385	

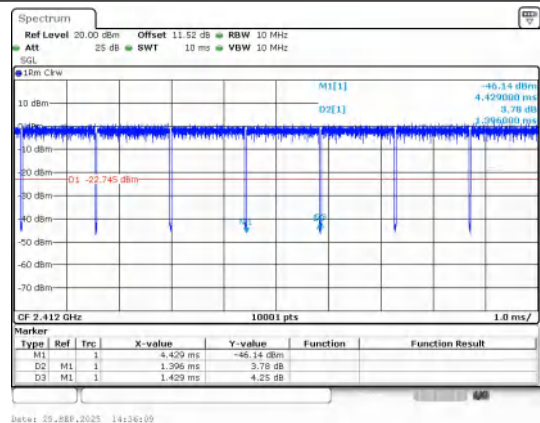
Test Graphs



IEEE 802.11b_20MHz_Channel 1

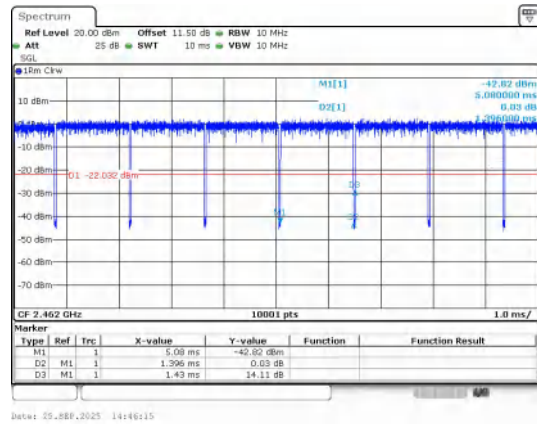
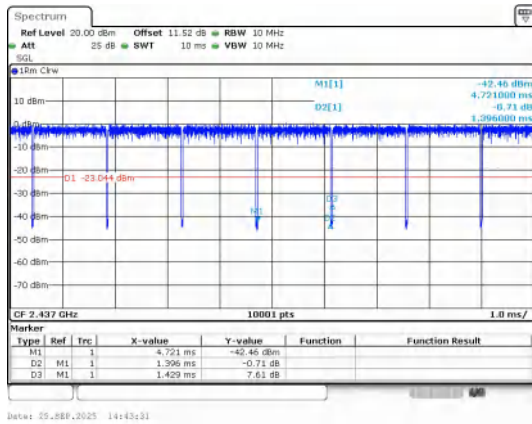


IEEE 802.11b_20MHz_Channel 6



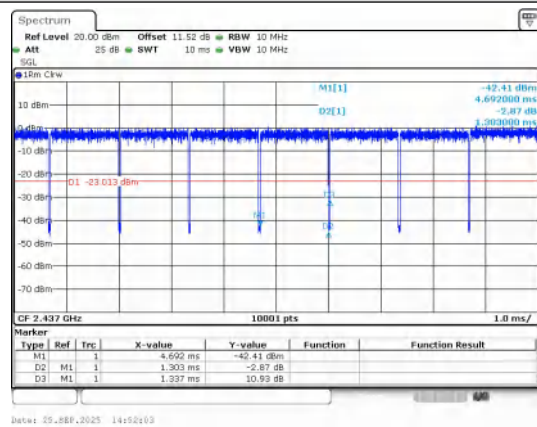
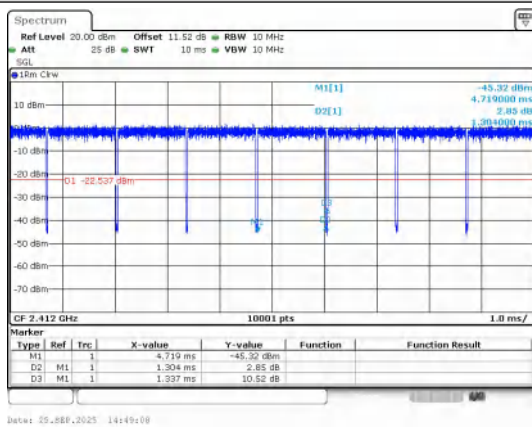
IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1



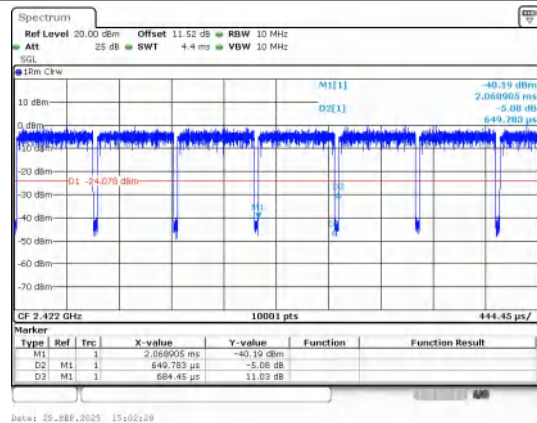
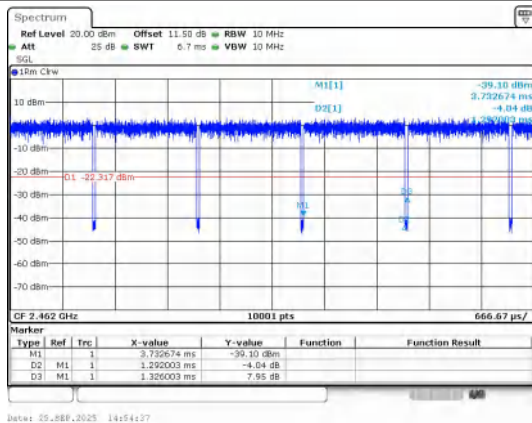
IEEE 802.11g_20MHz_Channel 6

IEEE 802.11g_20MHz_Channel 11



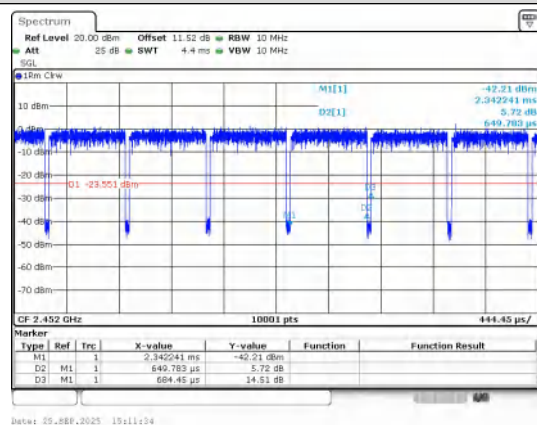
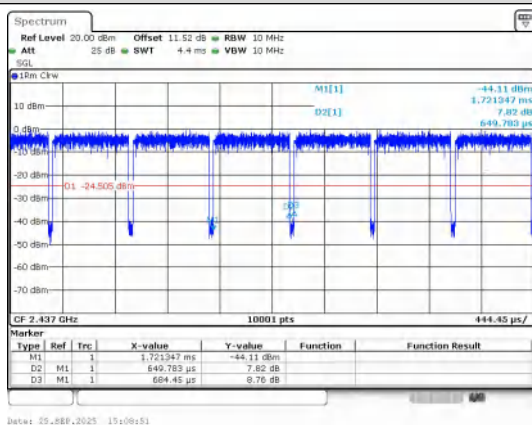
IEEE 802.11n_20MHz_Channel 1

IEEE 802.11n_20MHz_Channel 6



IEEE 802.11n_20MHz_Channel 11

IEEE 802.11n_40MHz_Channel 3



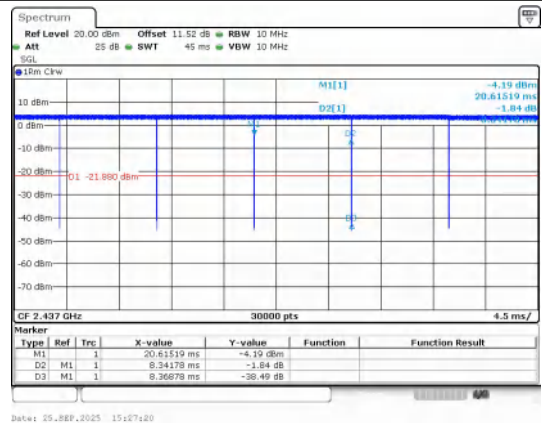
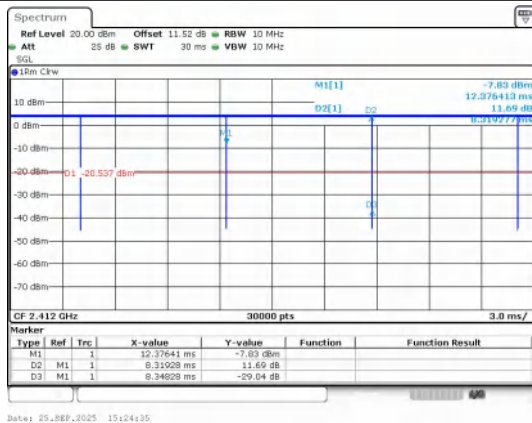
IEEE 802.11n_40MHz_Channel 6

IEEE 802.11n_40MHz_Channel 9

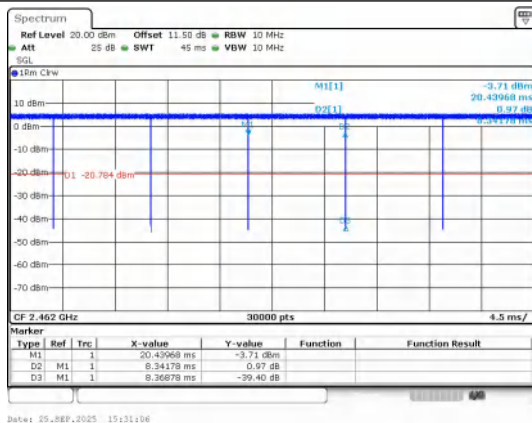
Ant3: Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	3	8.319	8.348	99.65	0.9965	0.0152	0.1202
		6		8.342	8.369	99.68	0.9968	0.0139	0.1199
		11		8.342	8.369	99.68	0.9968	0.0139	0.1199
IEEE 802.11g		1		1.395	1.429	97.62	0.9762	0.1046	0.7168
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.304	1.338	97.46	0.9746	0.1117	0.7669
IEEE 802.11n_40		3	0.650	0.684	95.00	0.9500	0.2228	1.5385	
		6	0.650	0.684	95.00	0.9500	0.2228	1.5385	
		9	0.650	0.684	95.00	0.9500	0.2228	1.5385	

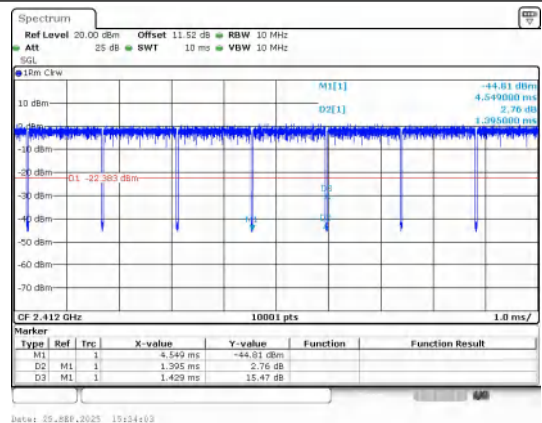
Test Graphs



IEEE 802.11b_20MHz_Channel 1

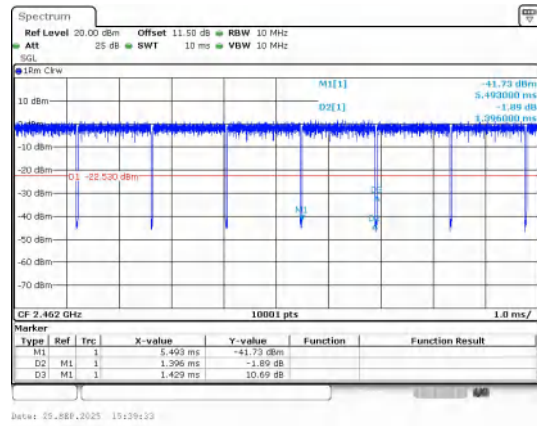
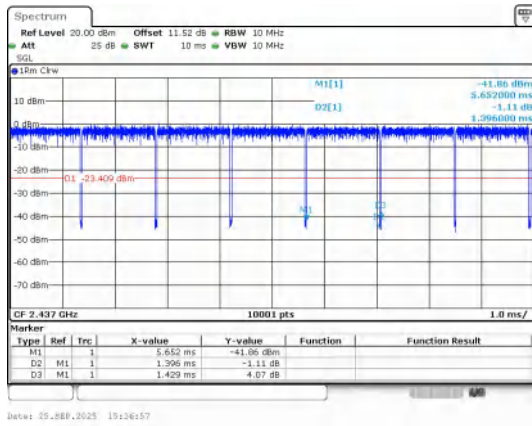


IEEE 802.11b_20MHz_Channel 6

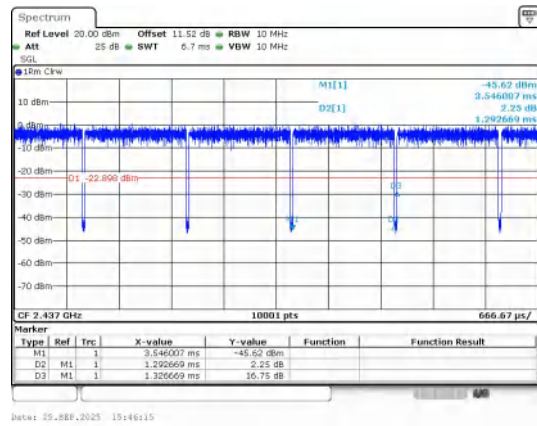
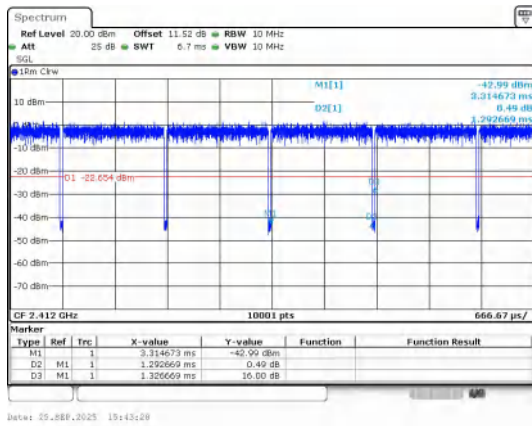


IEEE 802.11b_20MHz_Channel 11

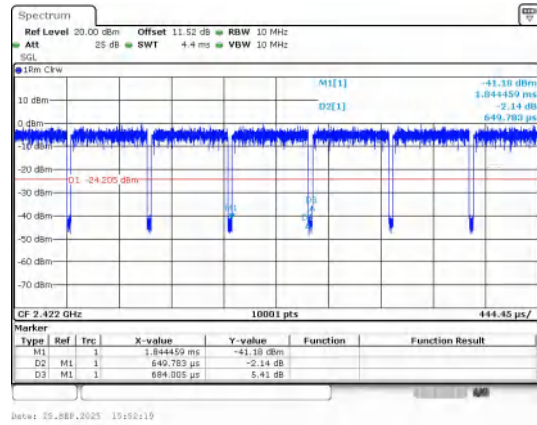
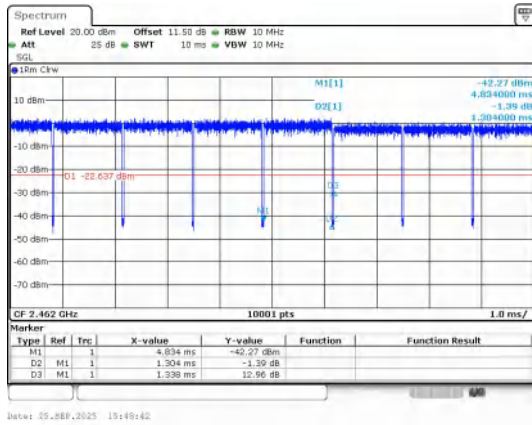
IEEE 802.11g_20MHz_Channel 1



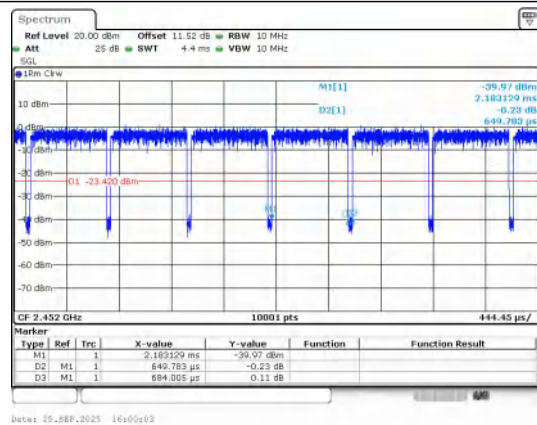
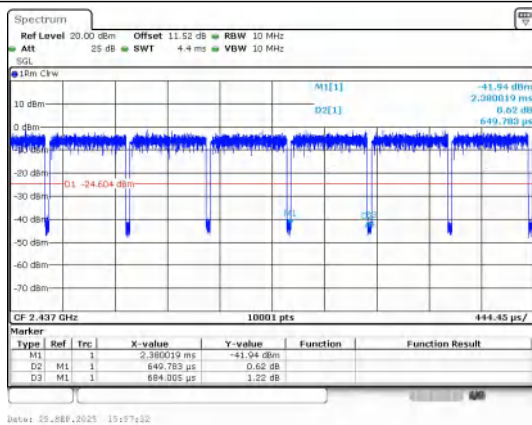
IEEE 802.11g_20MHz_Channel 6



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 6

IEEE 802.11n_40MHz_Channel 9

6.2. Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 1	PSD (dBm/3kHz) Ant. 2	PSD (dBm/3kHz) Ant. 3	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.670	-18.370	-18.430	≤8	PASS
	6	-19.660	-19.820	-20.300		PASS
	11	-19.610	-20.020	-19.660		PASS
IEEE 802.11g	1	-26.970	-25.860	-25.970		PASS
	6	-27.360	-25.490	-26.420		PASS
	11	-26.540	-25.840	-26.510		PASS
IEEE 802.11n_20	1	-25.560	-25.840	-26.220		PASS
	6	-26.640	-25.540	-27.480		PASS
	11	-24.890	-23.730	-25.730		PASS
IEEE 802.11n_40	3	-27.870	-27.050	-27.410		PASS
	6	-29.900	-29.410	-29.080		PASS
	9	-26.540	-25.990	-26.210		PASS

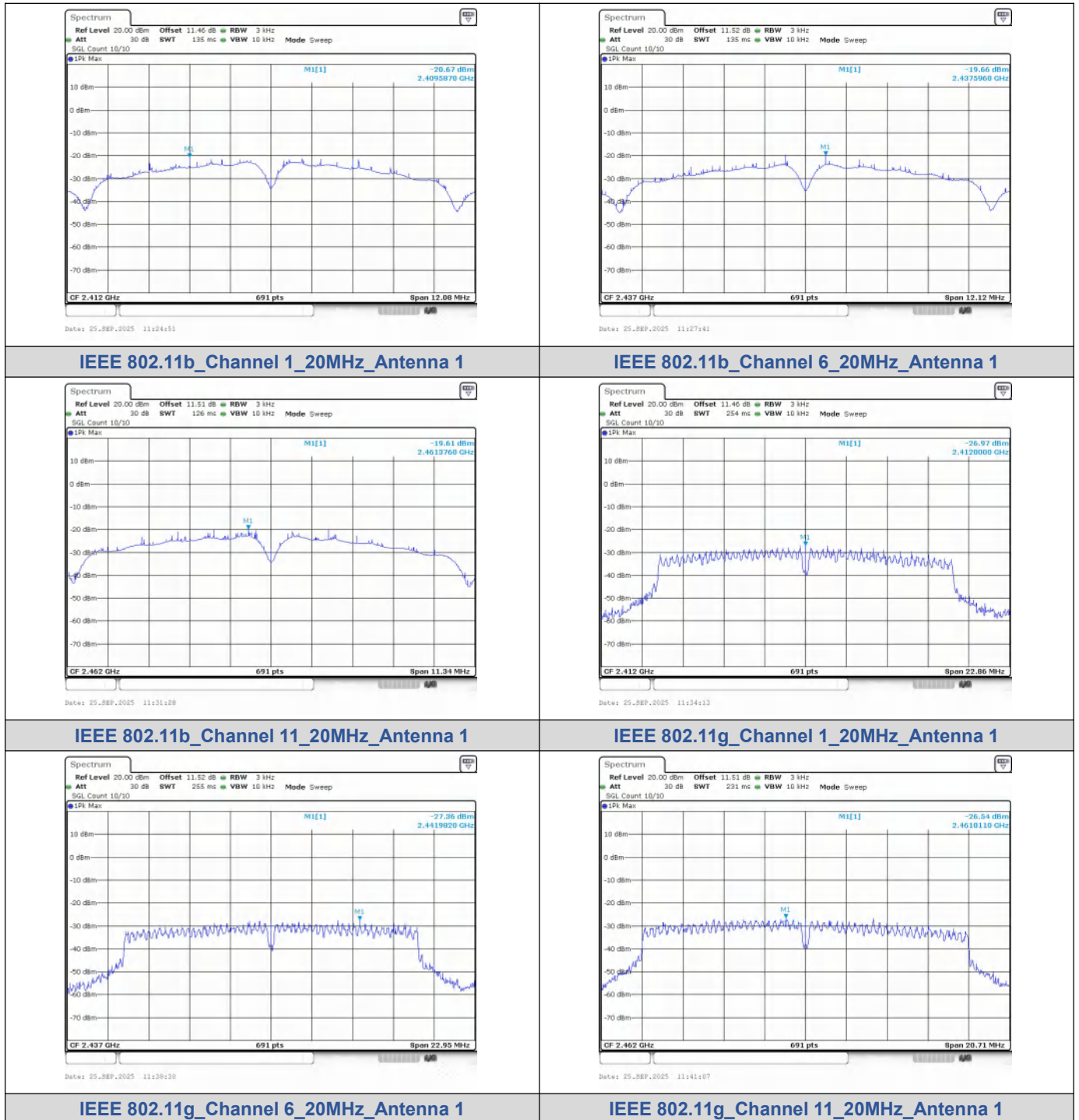
MIMO

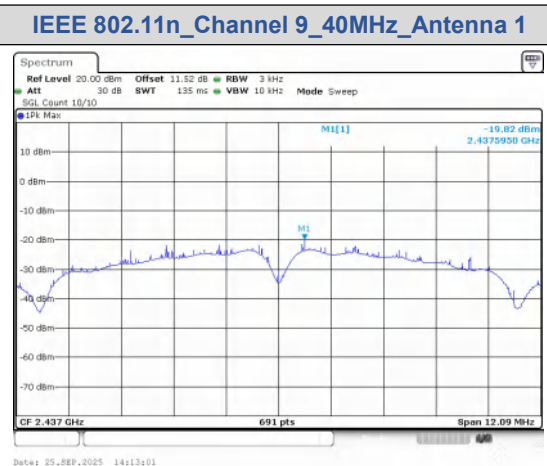
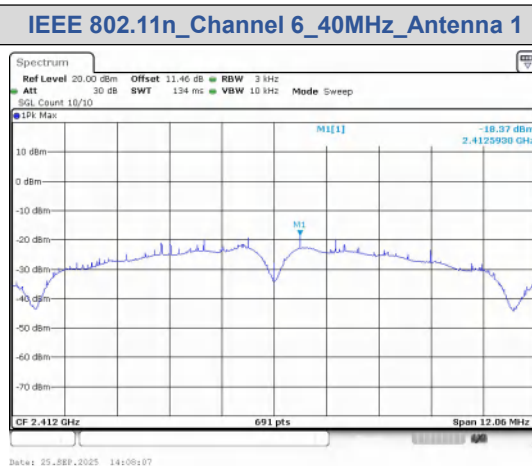
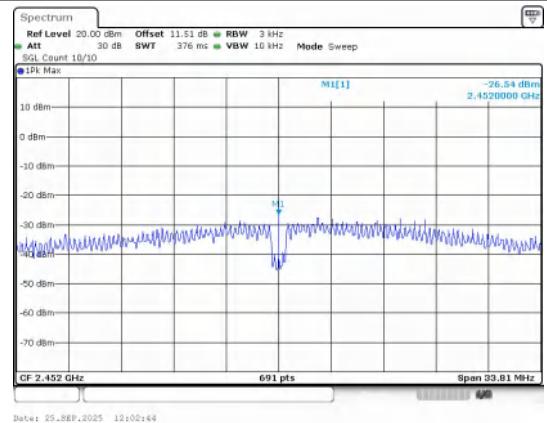
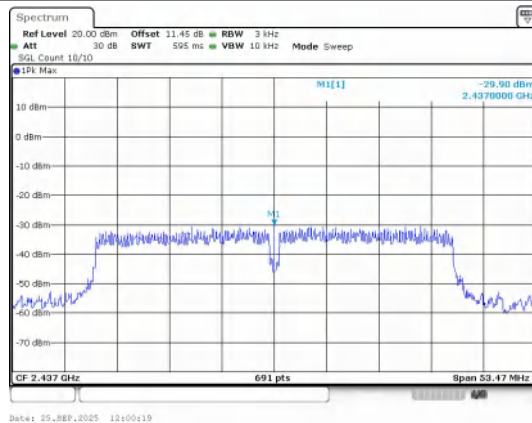
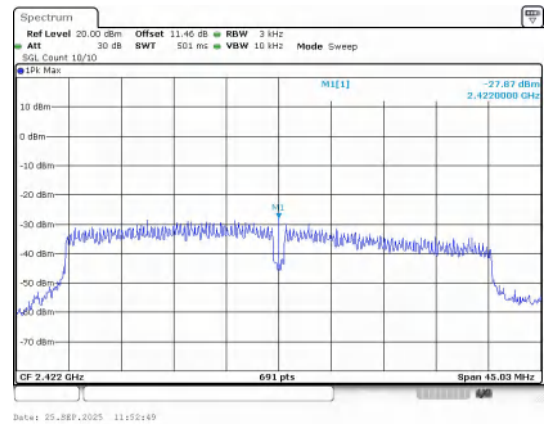
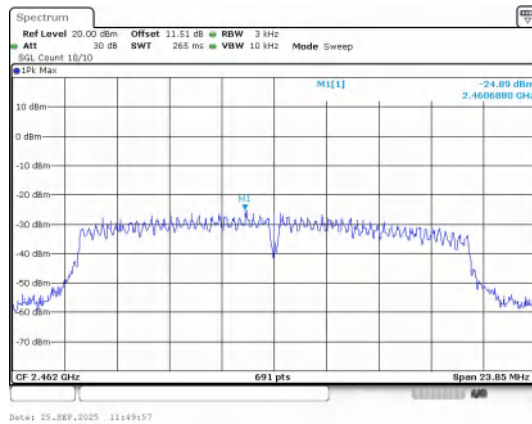
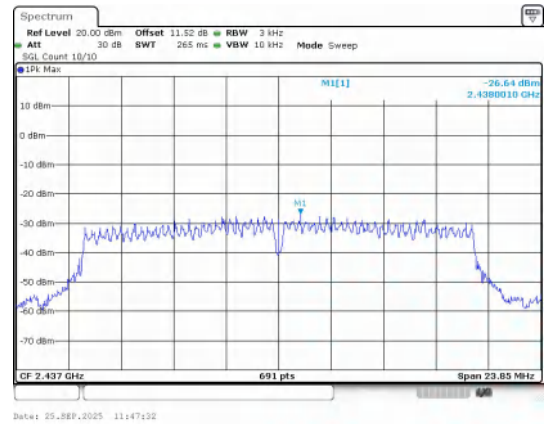
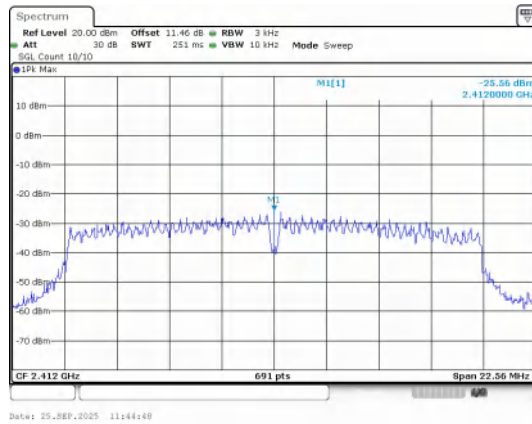
Mode	Channel	PSD (dBm/3kHz) Ant. 1	PSD (dBm/3kHz) Ant. 2	PSD (dBm/3kHz) Ant. 3	PSD (dBm/3kHz) Ant. 1+Ant. 2+Ant. 3	Limit (dBm/3kHz)	Result
IEEE 802.11n_20	1	-25.560	-25.840	-26.220	-21.09	≤7.23	PASS
	6	-26.640	-25.540	-27.480	-21.71		PASS
	11	-24.890	-23.730	-25.730	-19.93		PASS
IEEE 802.11n_40	3	-27.870	-27.050	-27.410	-22.66		PASS
	6	-29.900	-29.410	-29.080	-24.68		PASS
	9	-26.540	-25.990	-26.210	-21.47		PASS

Note:

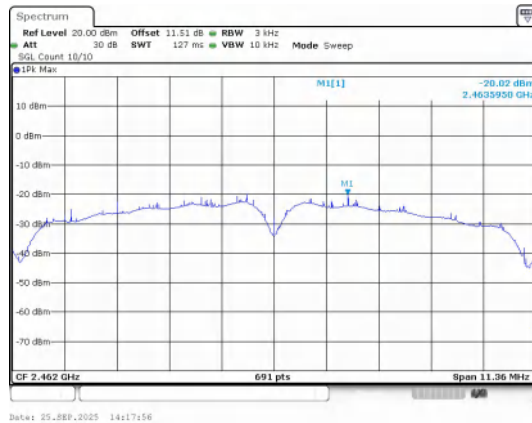
1. Array Gain = $10 \log (N_{ant} / N_{ss})$ dB=4.77dBi
2. Directional gain = Ant Max Gain + Array Gain=2+4.77=6.77dBi

Test Graphs

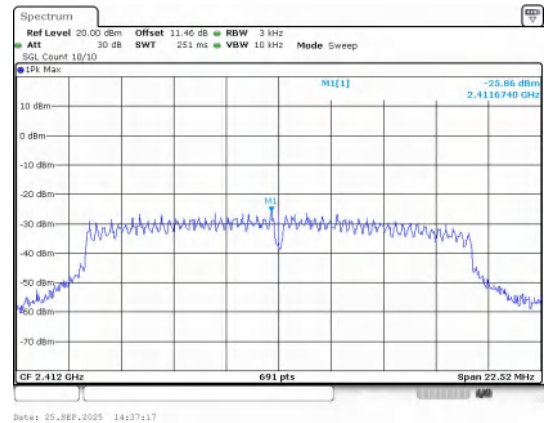




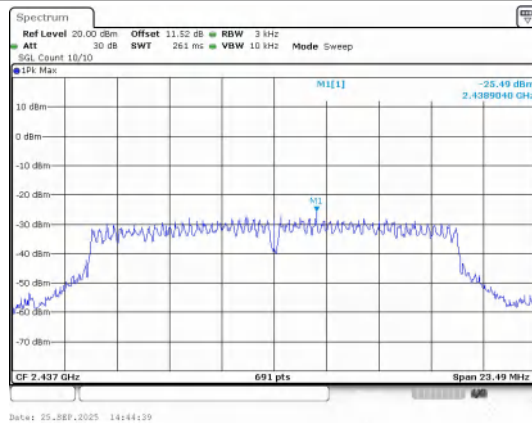
IEEE 802.11b_Channel 1_20MHz_Antenna 2



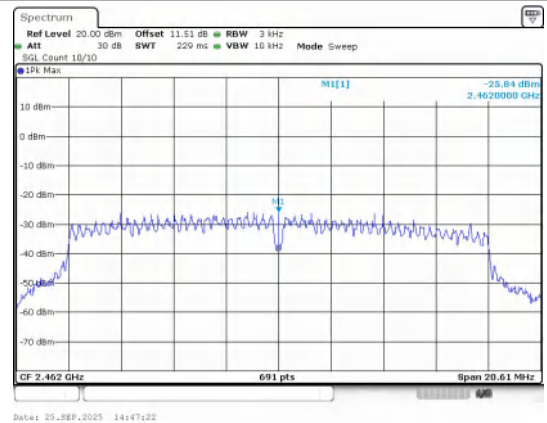
IEEE 802.11b_Channel 6_20MHz_Antenna 2



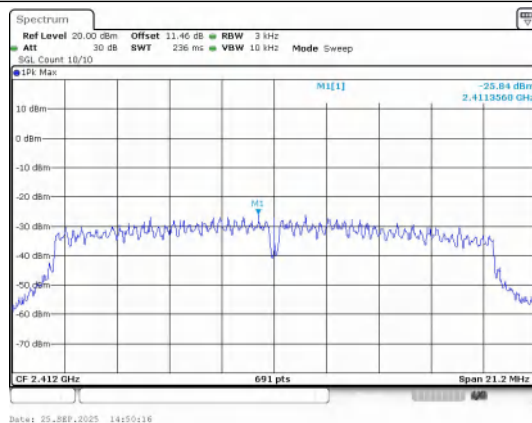
IEEE 802.11b_Channel 11_20MHz_Antenna 2



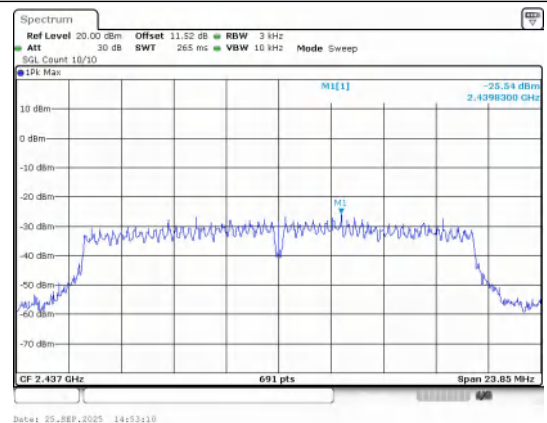
IEEE 802.11g_Channel 1_20MHz_Antenna 2



IEEE 802.11g_Channel 6_20MHz_Antenna 2

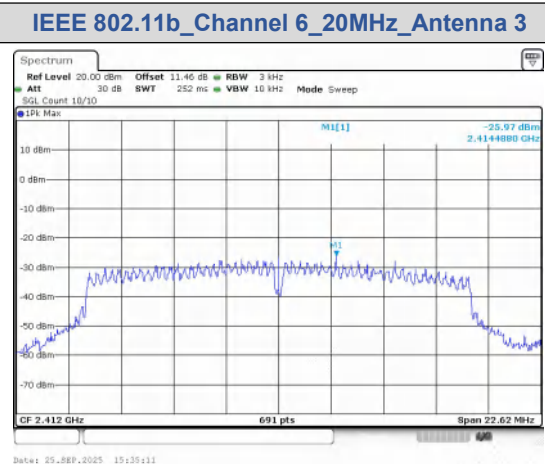
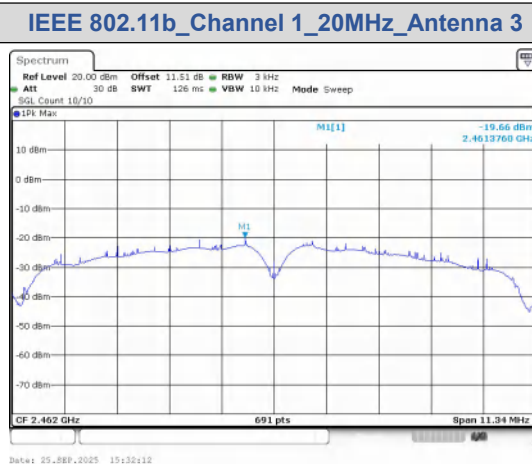
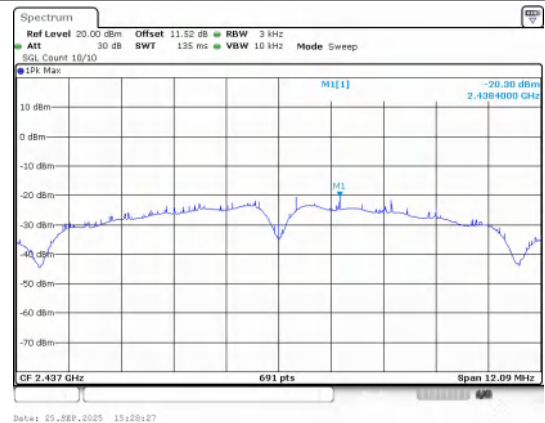
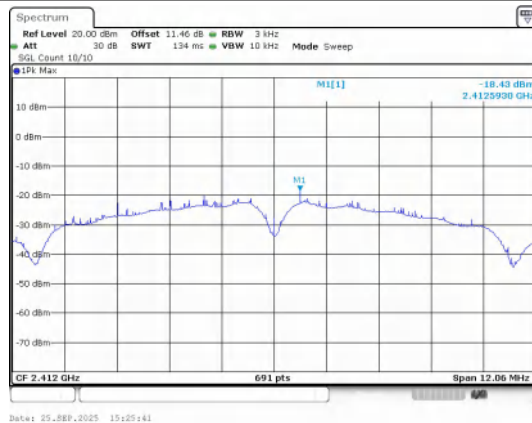
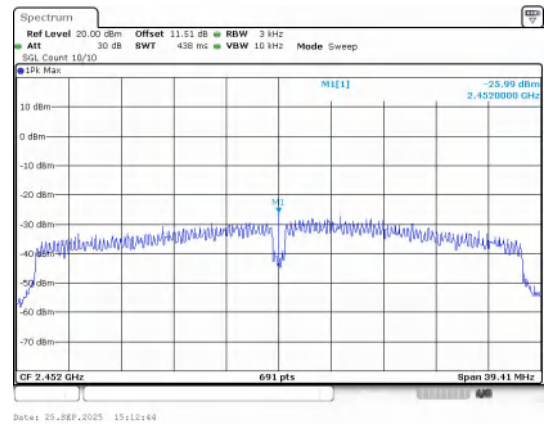
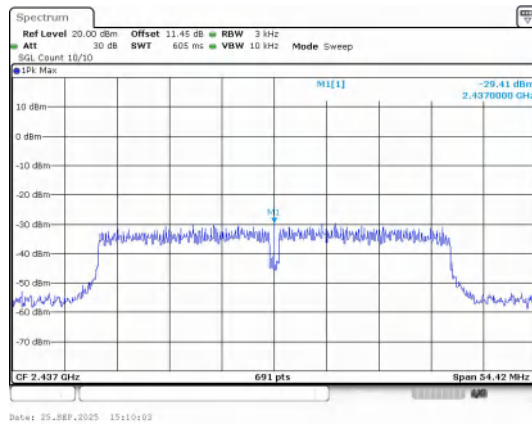
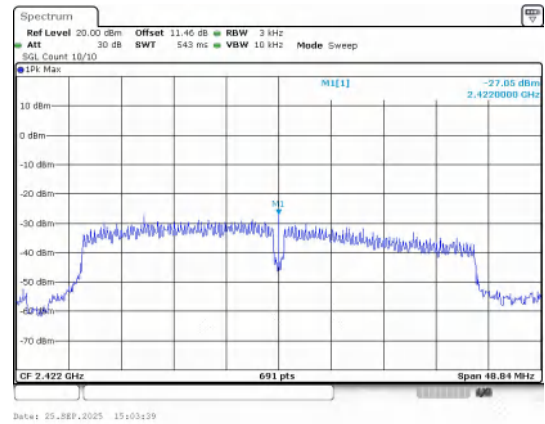
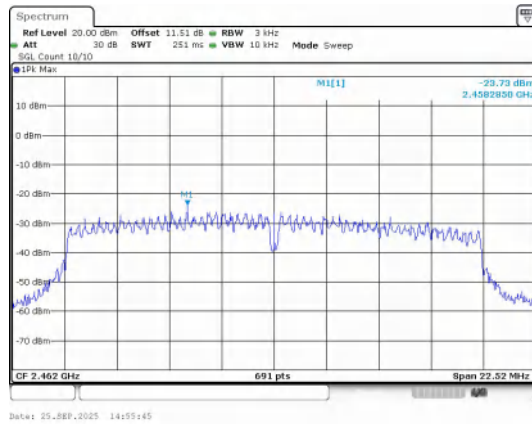


IEEE 802.11g_Channel 11_20MHz_Antenna 2

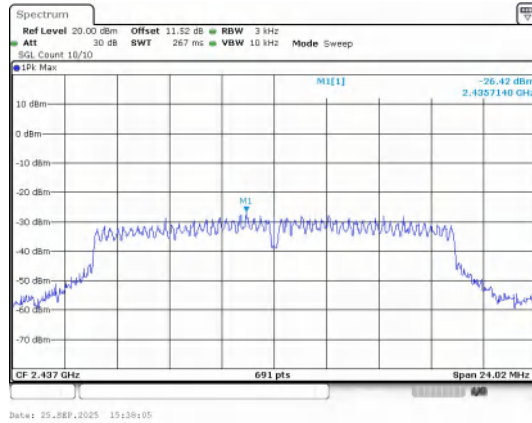


IEEE 802.11n_Channel 1_20MHz_Antenna 2

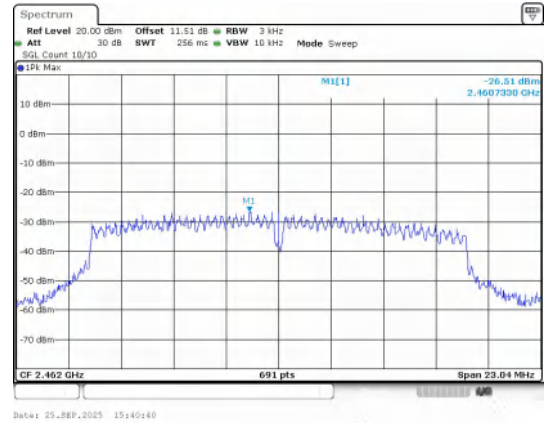
IEEE 802.11n_Channel 6_20MHz_Antenna 2



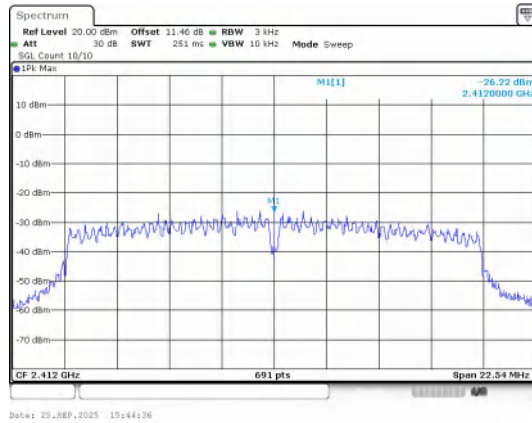
IEEE 802.11b_Channel 11_20MHz_Antenna 3



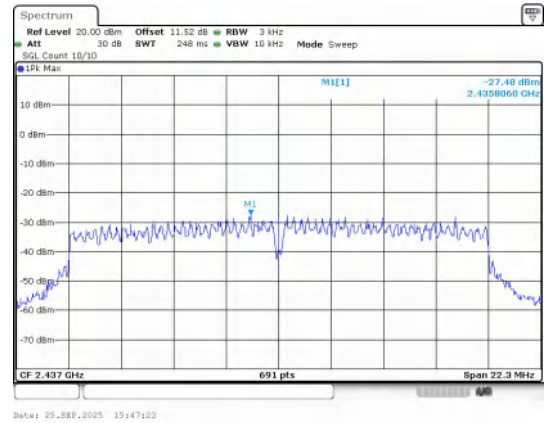
IEEE 802.11g_Channel 1_20MHz_Antenna 3



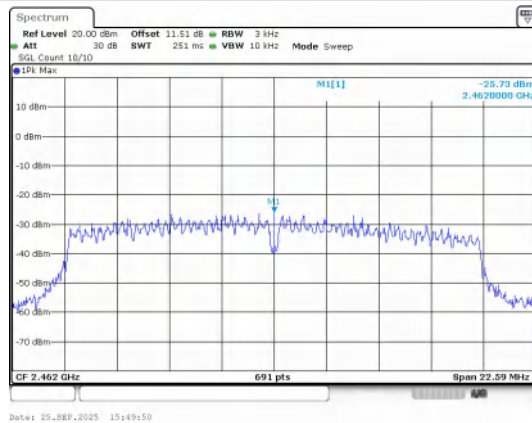
IEEE 802.11g_Channel 6_20MHz_Antenna 3



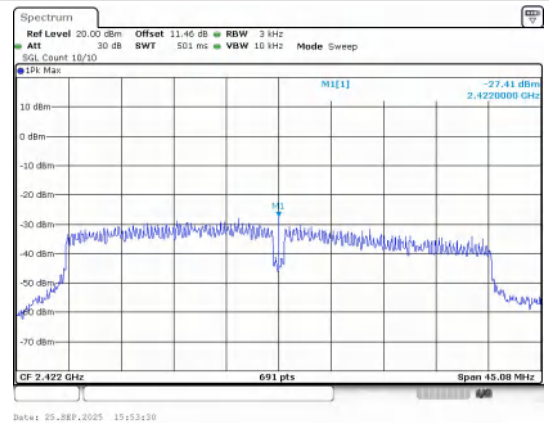
IEEE 802.11g_Channel 11_20MHz_Antenna 3



IEEE 802.11n_Channel 1_20MHz_Antenna 3

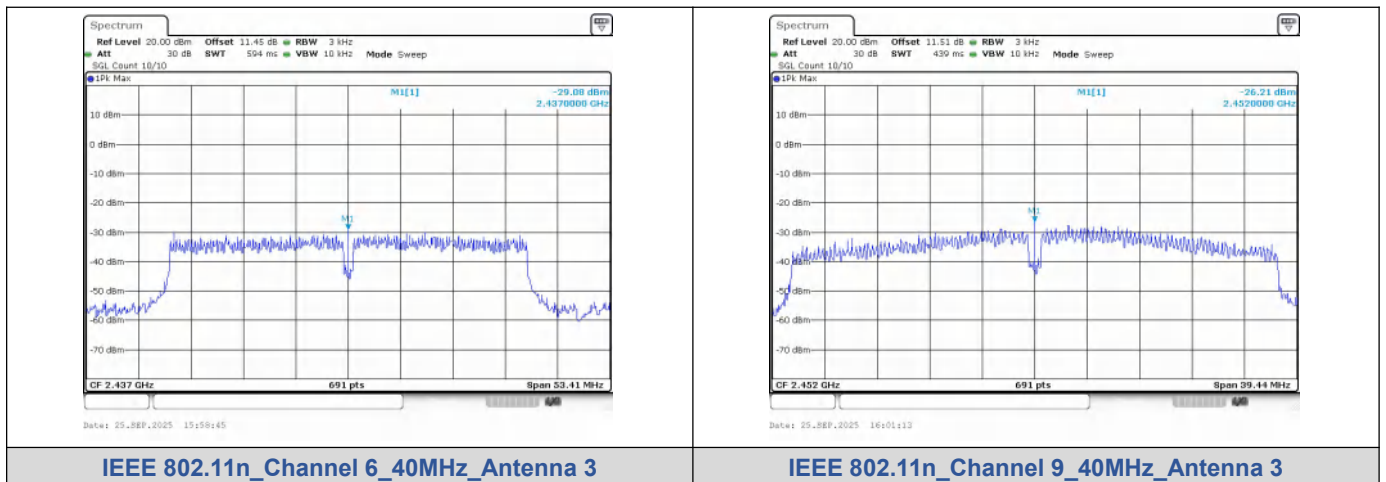


IEEE 802.11n_Channel 6_20MHz_Antenna 3



IEEE 802.11n_Channel 11_20MHz_Antenna 3

IEEE 802.11n_Channel 3_40MHz_Antenna 3



6.3. Conducted Output Power

Test Result

Mode	Channel	Ant1 (dBm)	Ant2 (dBm)	Ant3 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.51	7.81	7.84	≤30	PASS
	6	6.70	7.08	7.05	≤30	PASS
	11	7.33	7.91	7.63	≤30	PASS
IEEE 802.11g	1	6.88	8.06	7.15	≤30	PASS
	6	6.97	7.32	6.68	≤30	PASS
	11	7.93	8.34	7.74	≤30	PASS
IEEE 802.11n_20	1	7.47	7.66	7.16	≤30	PASS
	6	7.03	7.61	6.38	≤30	PASS
	11	8.47	8.54	7.88	≤30	PASS
IEEE 802.11n_40	3	7.03	7.69	7.22	≤30	PASS
	6	7.25	7.51	7.38	≤30	PASS
	9	6.96	7.75	7.54	≤30	PASS

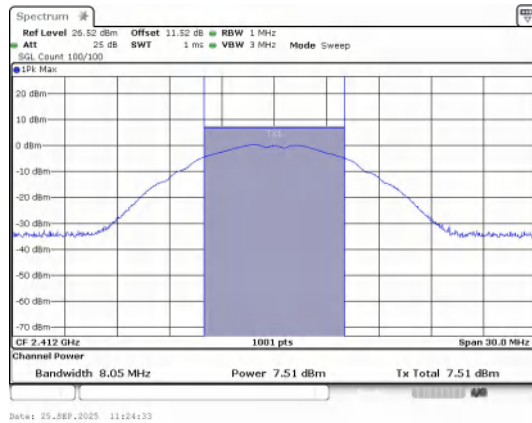
MIMO

Mode	Channel	Ant1 (dBm)	Ant2 (dBm)	Ant3 (dBm)	Ant. 1+Ant. 2+Ant.3 (dBm)	Limit (dBm)	Result
IEEE 802.11n_20	1	7.47	7.66	7.16	12.21	≤29.23	PASS
	6	7.03	7.61	6.38	11.81		PASS
	11	8.47	8.54	7.88	13.08		PASS
IEEE 802.11n_40	3	7.03	7.69	7.22	12.09		PASS
	6	7.25	7.51	7.38	12.15		PASS
	9	6.96	7.75	7.54	12.20		PASS

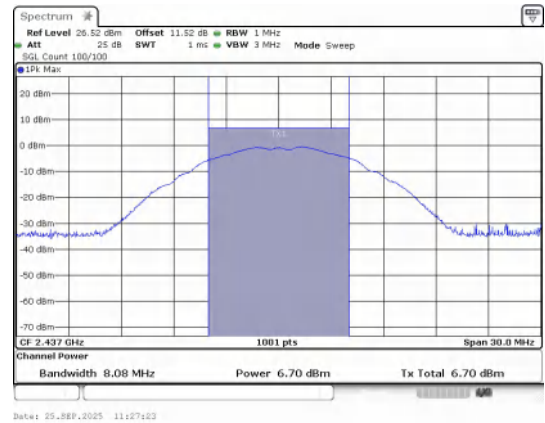
Note:

- Array Gain = $10 \log (N_{ant} / N_{ss})$ dB=4.77dBi
- Directional gain = Ant Max Gain + Array Gain=2+4.77=6.77dBi

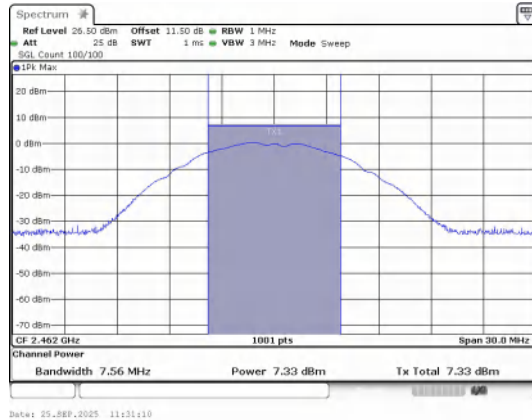
Test Graphs



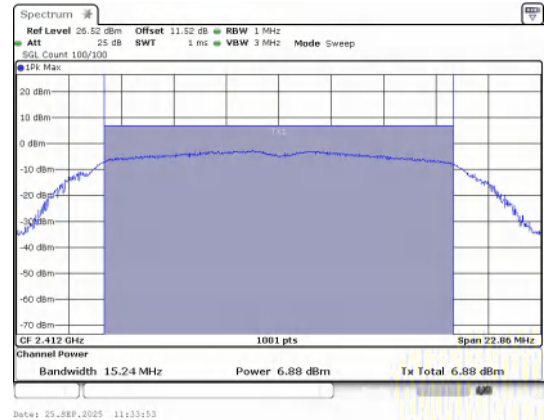
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 1**



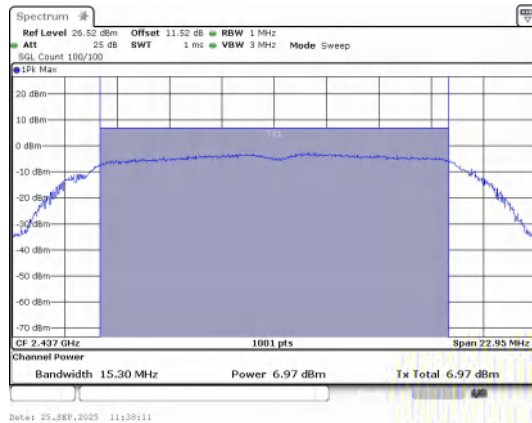
**Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 1**



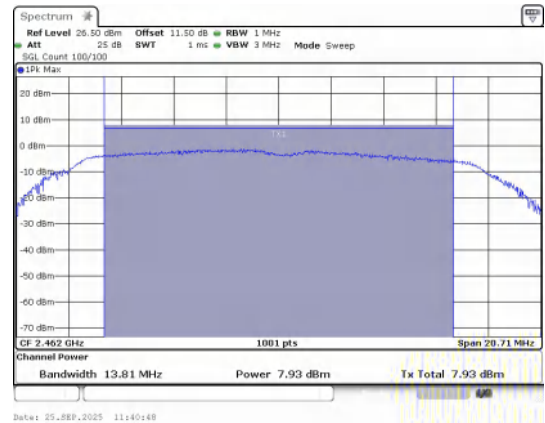
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 1**



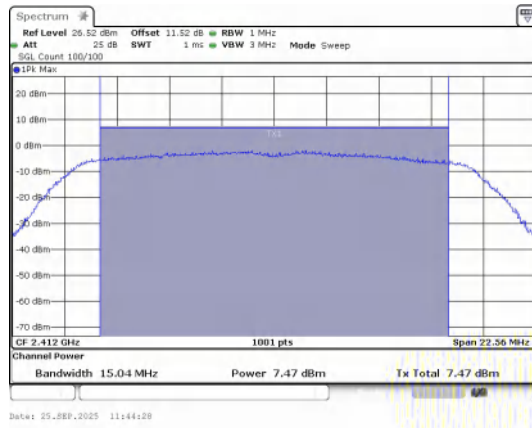
**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 1**



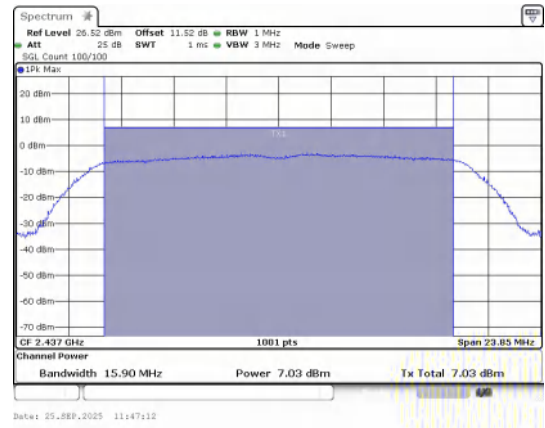
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 1**



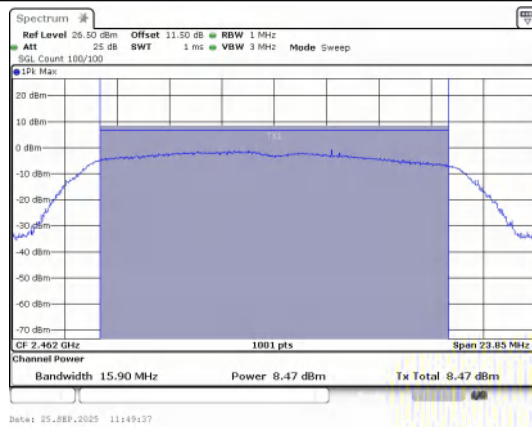
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 1**



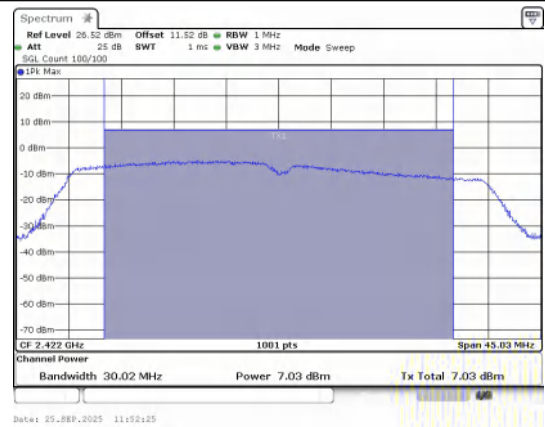
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 1**



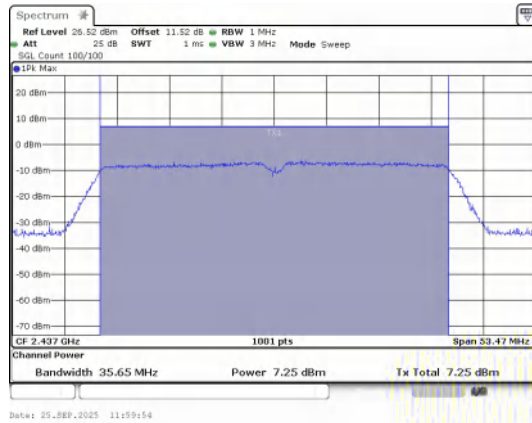
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 1**



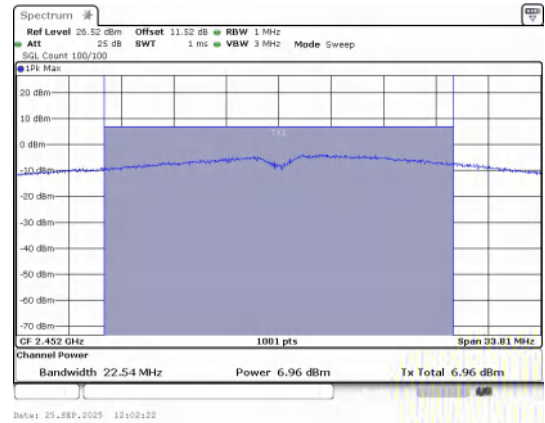
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 1**



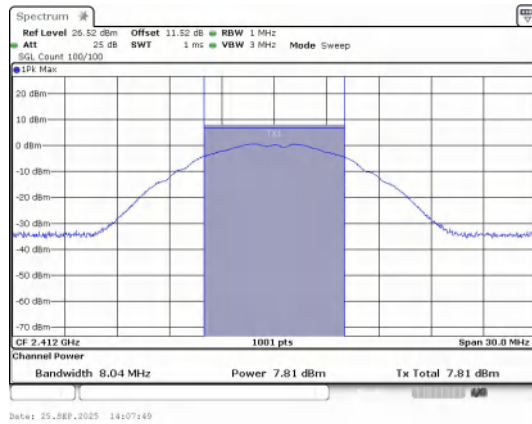
**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 1**



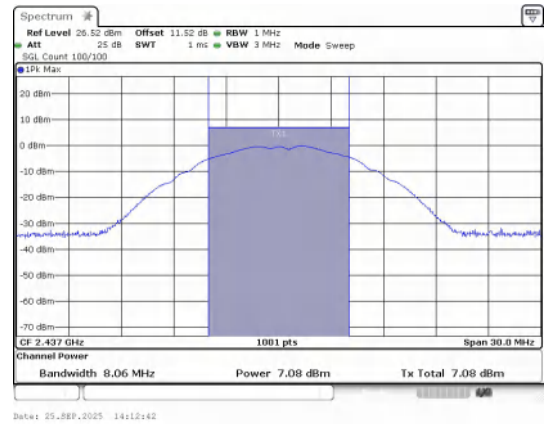
**Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 1**



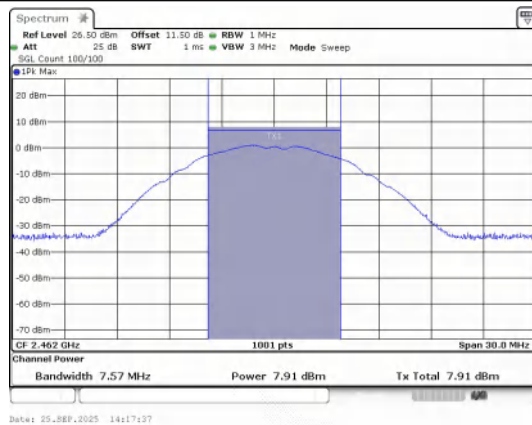
**Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 1**



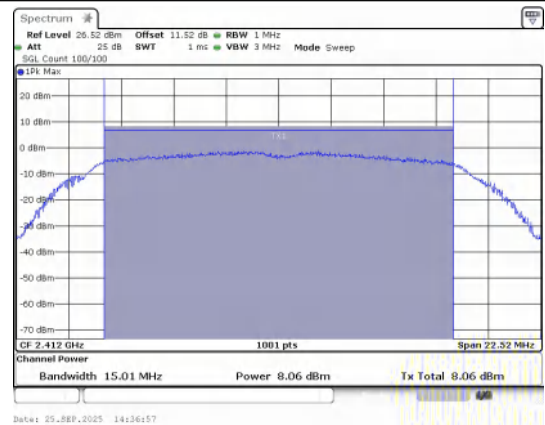
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 2**



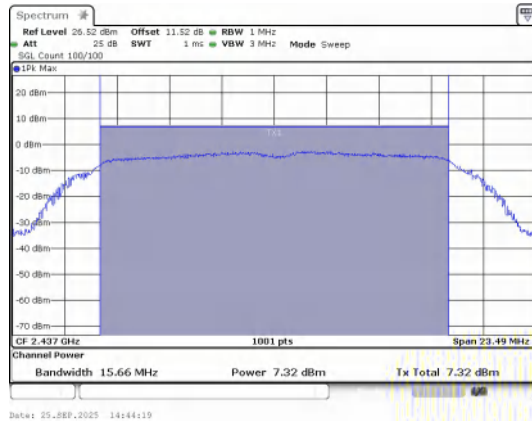
**Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 2**



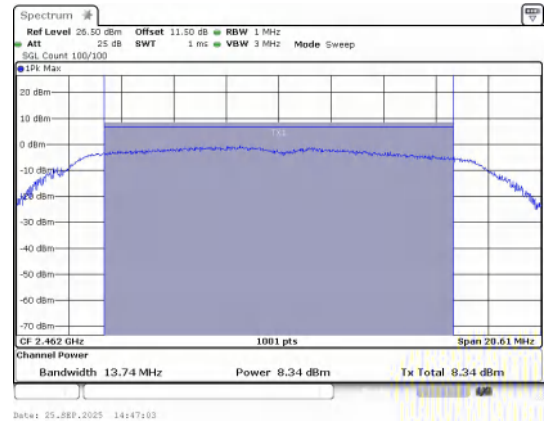
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 2**



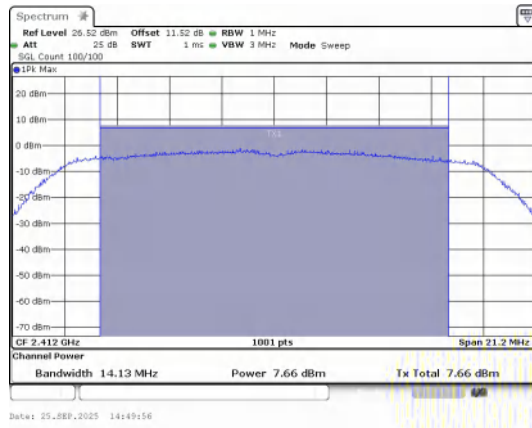
**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 2**



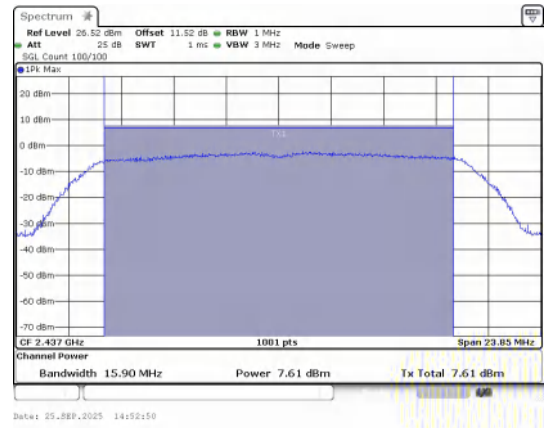
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 2**



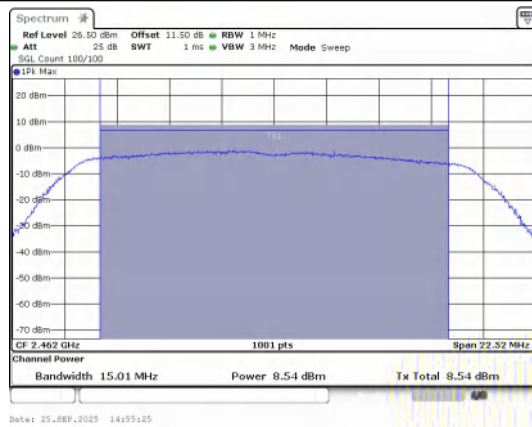
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 2**



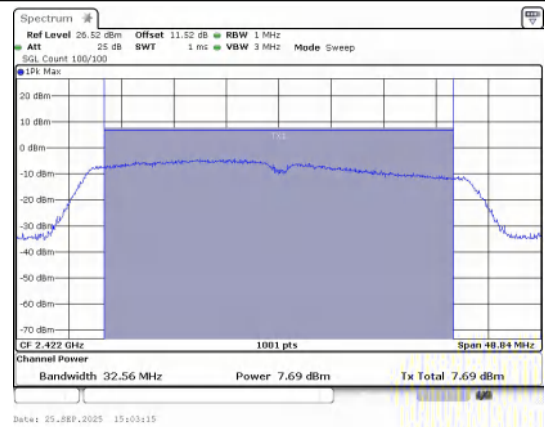
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 2**



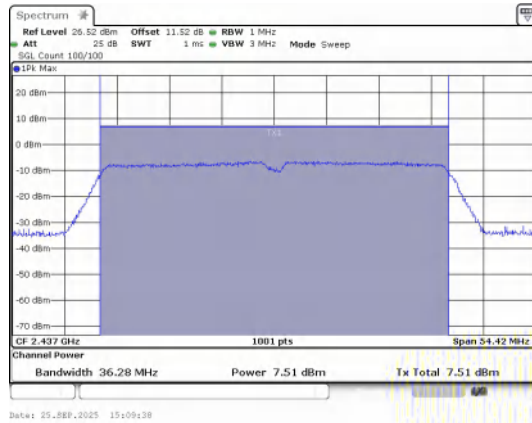
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 2**



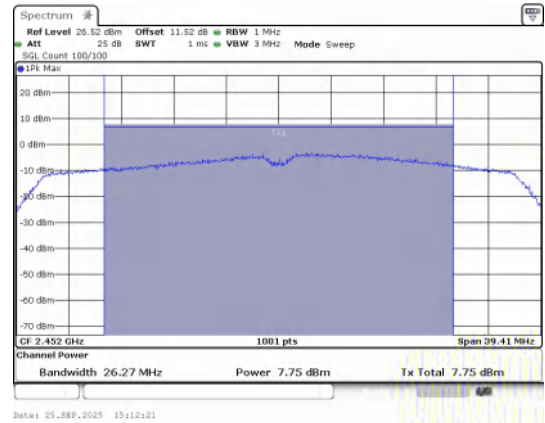
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 2**



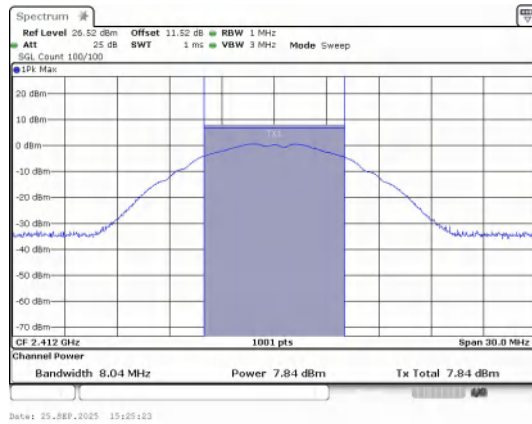
**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 2**



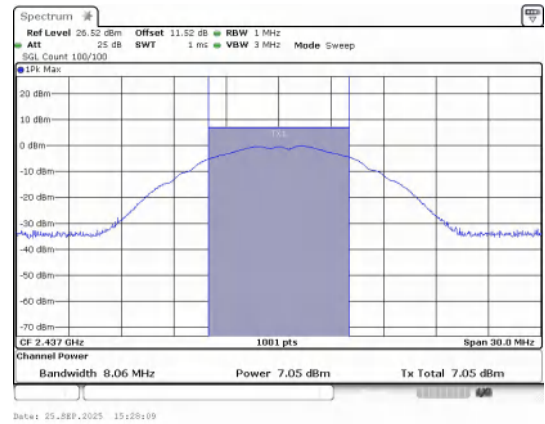
**Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 2**



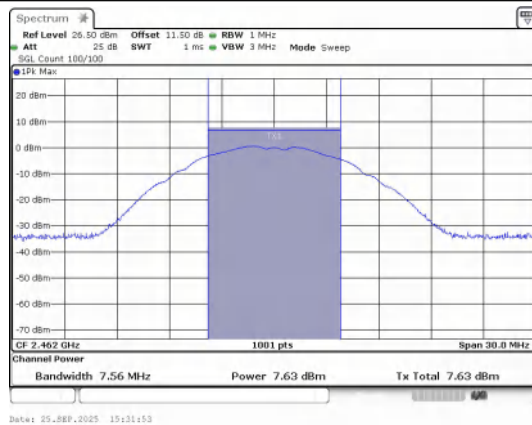
**Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 2**



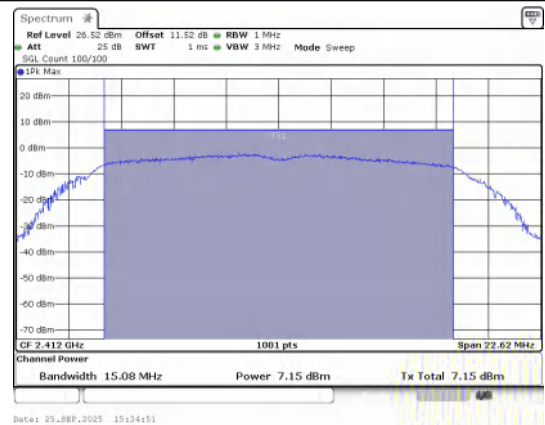
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 3**



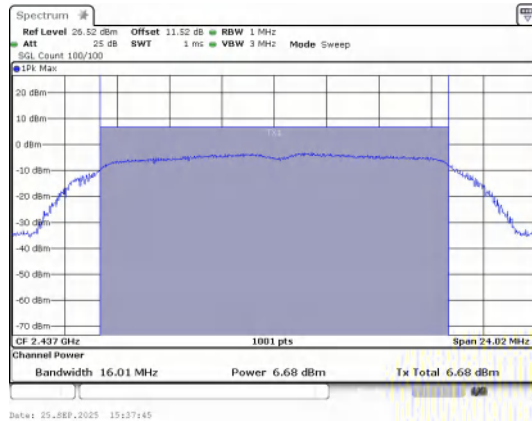
**Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 3**



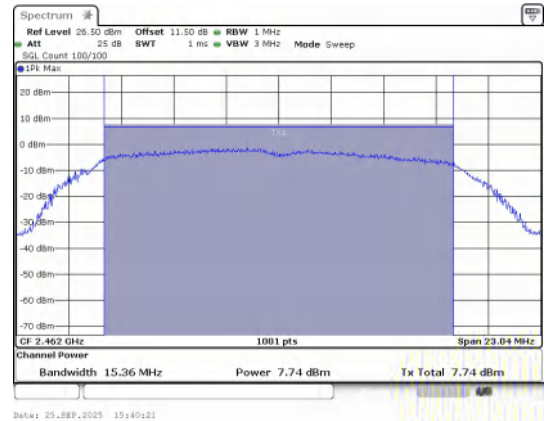
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 3**



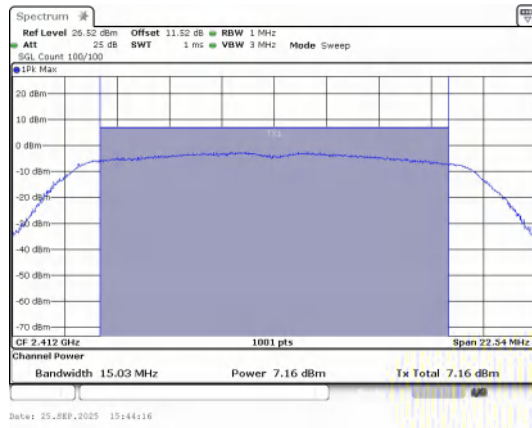
**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 3**



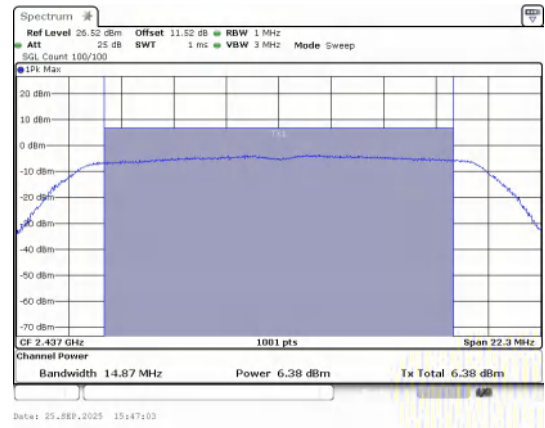
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 3**



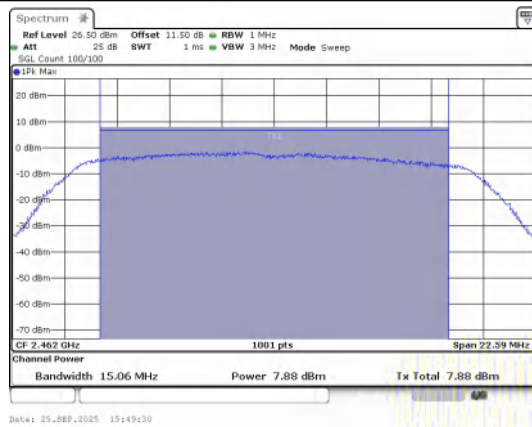
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 3**



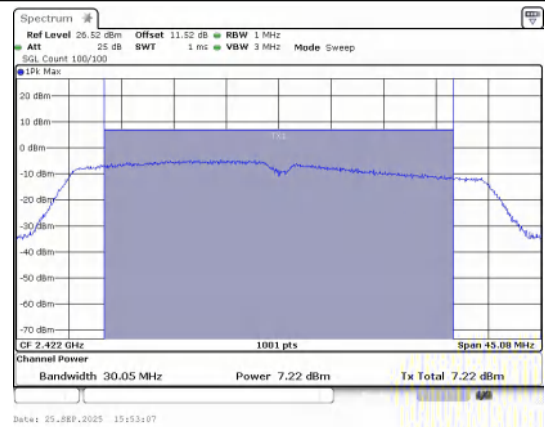
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 3**



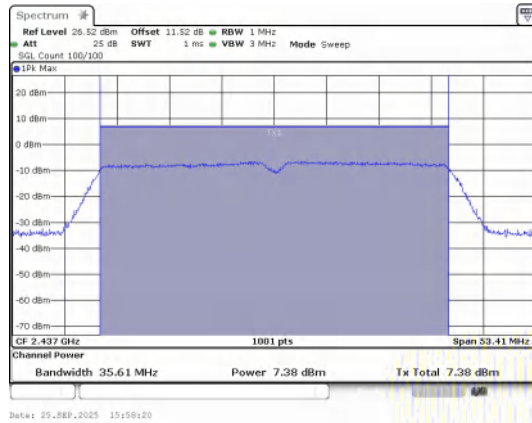
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 3**



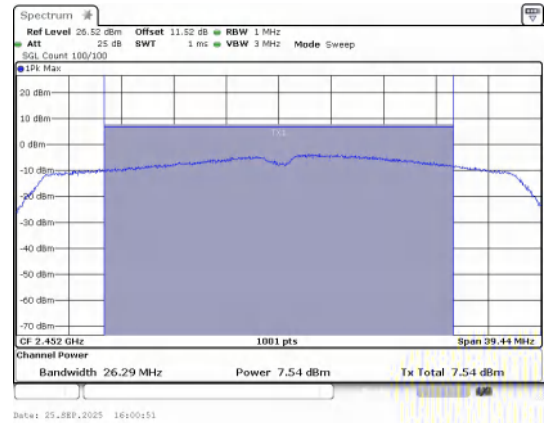
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 3**



**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 3**



**Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 3**



**Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 3**

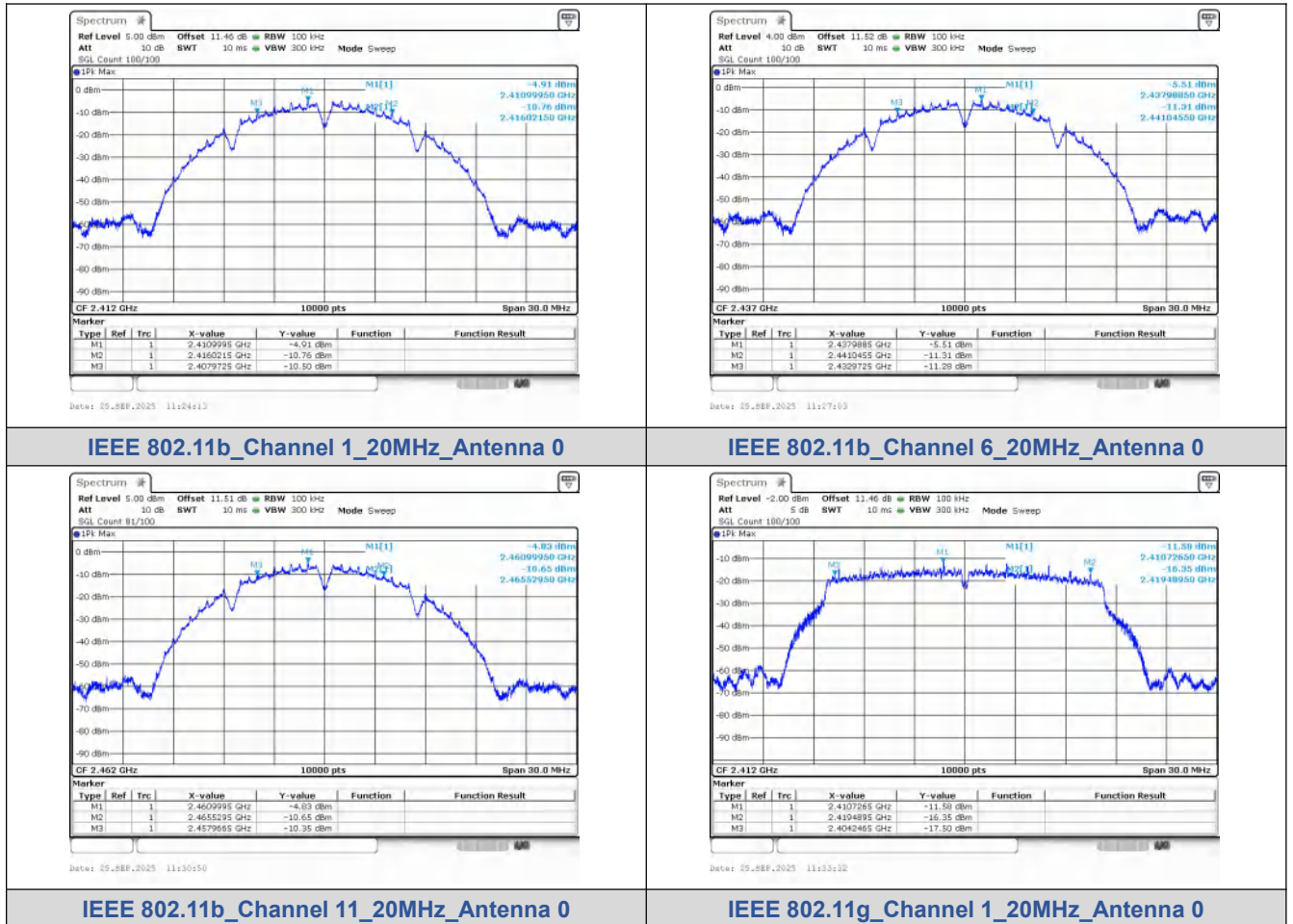
6.4. 6dB Bandwidth

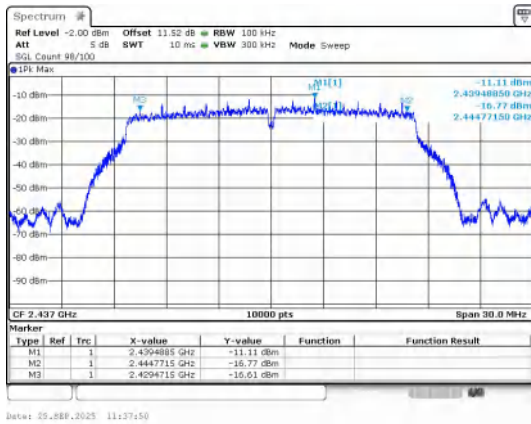
Ant1:

Test Result

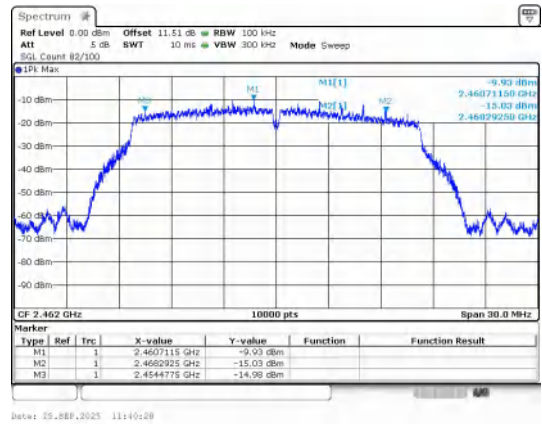
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.050	≥0.5	PASS
	6		2437	8.080		PASS
	11		2462	7.560		PASS
IEEE 802.11g	1		2412	15.24		PASS
	6		2437	15.30		PASS
	11		2462	13.81		PASS
IEEE 802.11n_20	1		2412	15.04		PASS
	6		2437	15.90		PASS
	11		2462	15.90		PASS
IEEE 802.11n_40	3		2422	30.02		PASS
	6		2437	35.65		PASS
	9		2452	22.54		PASS

Test Graphs

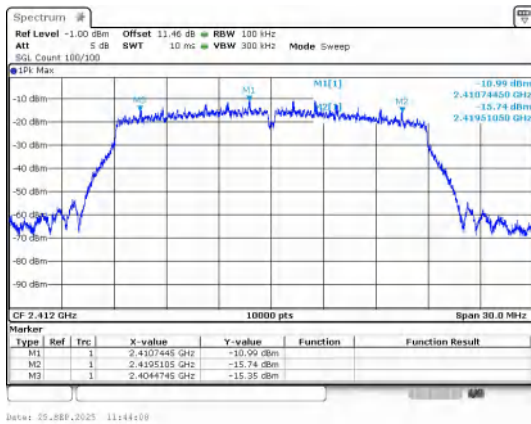




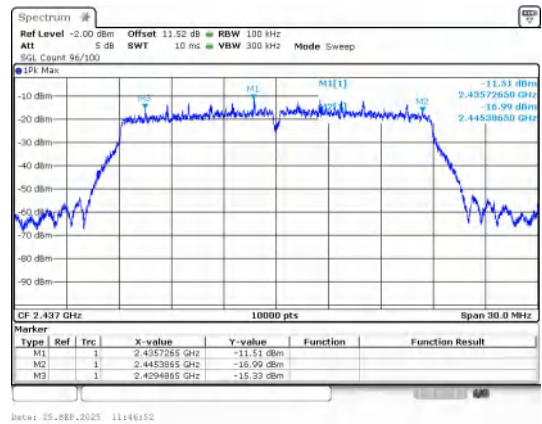
IEEE 802.11g_Channel 6_20MHz_Antenna 0



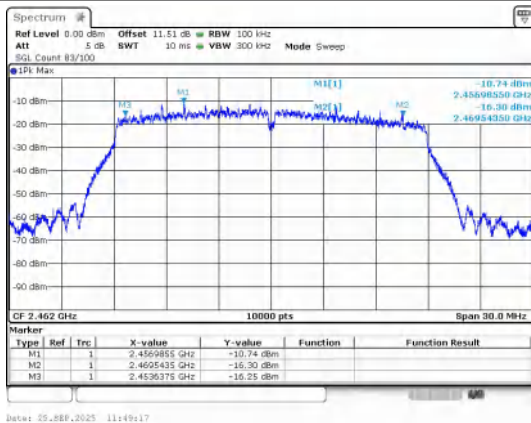
IEEE 802.11g_Channel 11_20MHz_Antenna 0



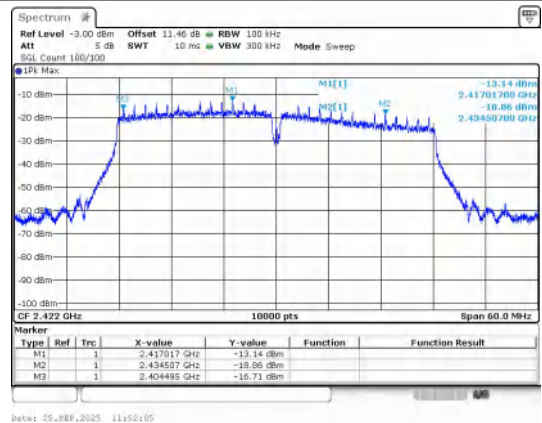
IEEE 802.11n_Channel 1_20MHz_Antenna 0



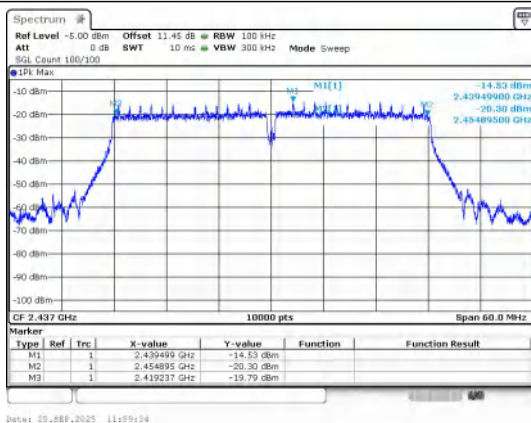
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



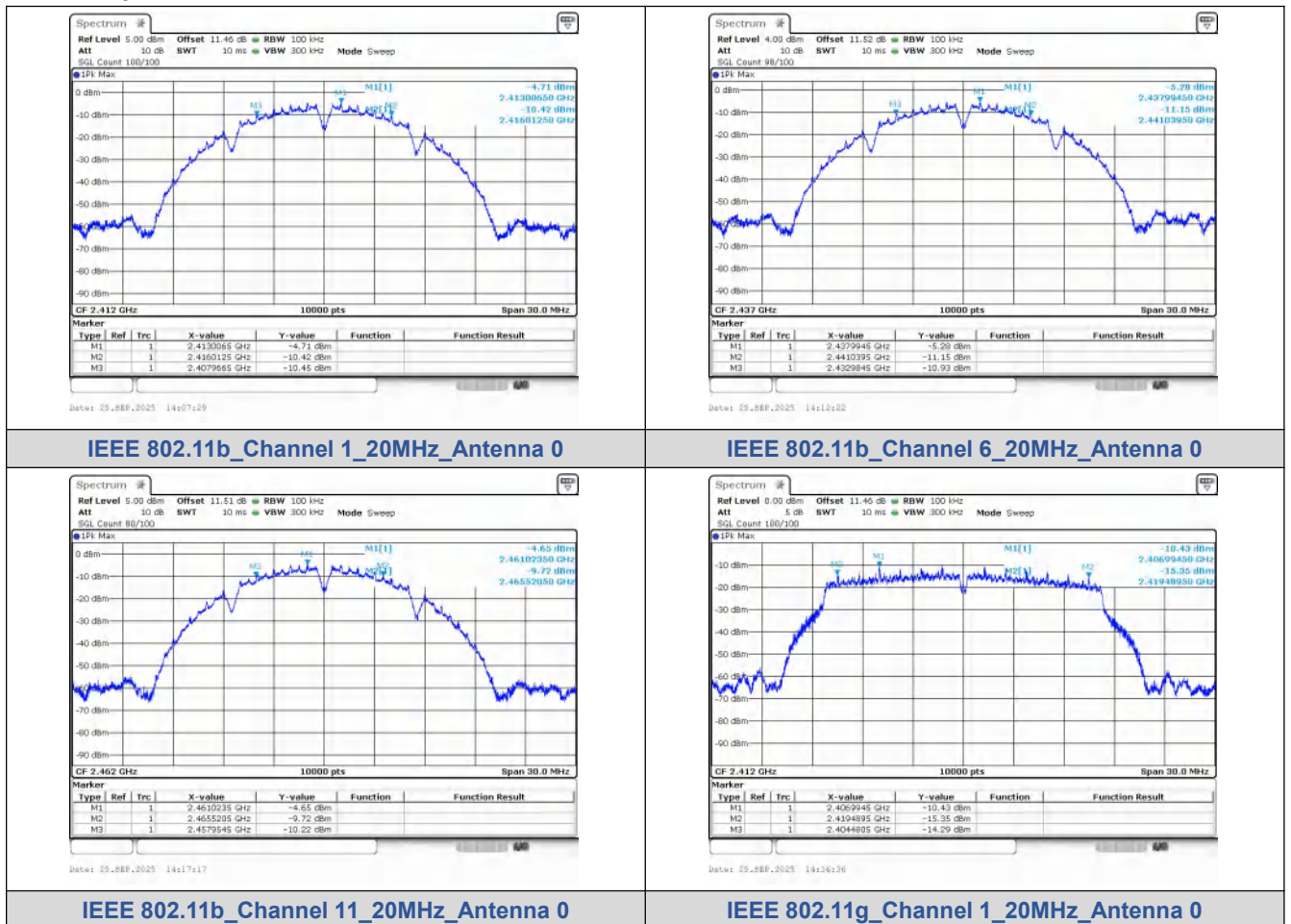
IEEE 802.11n_Channel 6_40MHz_Antenna 0

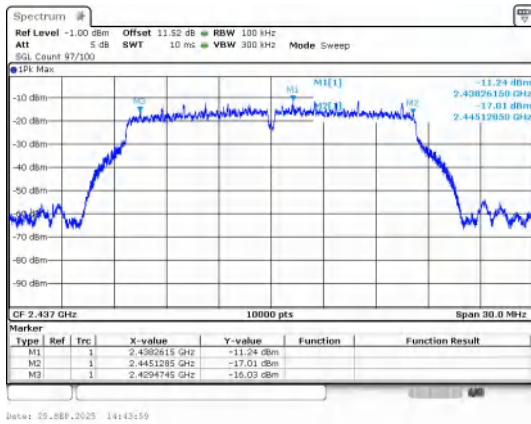
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant2: Test Result

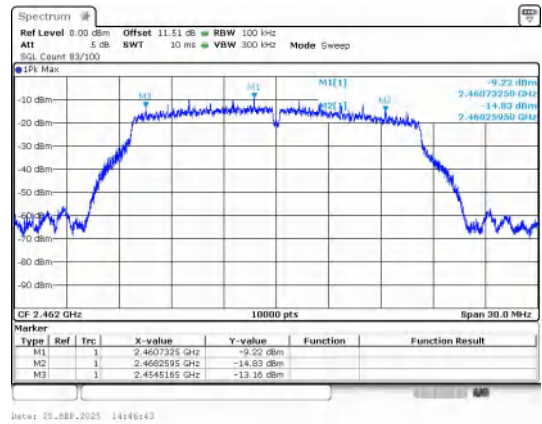
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.040	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	7.570		PASS
IEEE 802.11g	1		2412	15.01		PASS
	6		2437	15.66		PASS
	11		2462	13.74		PASS
IEEE 802.11n_20	1		2412	14.13		PASS
	6		2437	15.90		PASS
	11		2462	15.01		PASS
IEEE 802.11n_40	3		2422	32.56		PASS
	6		2437	36.28		PASS
	9		2452	26.27		PASS

Test Graphs

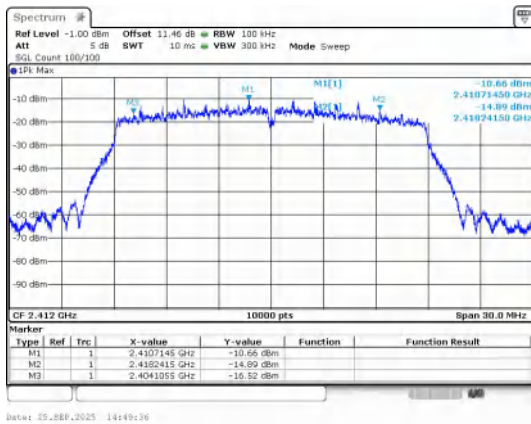




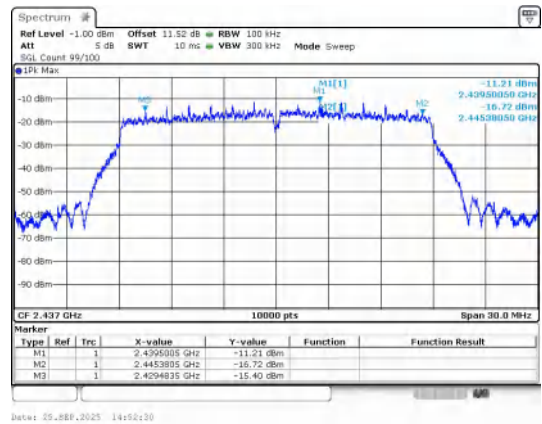
IEEE 802.11g_Channel 6_20MHz_Antenna 0



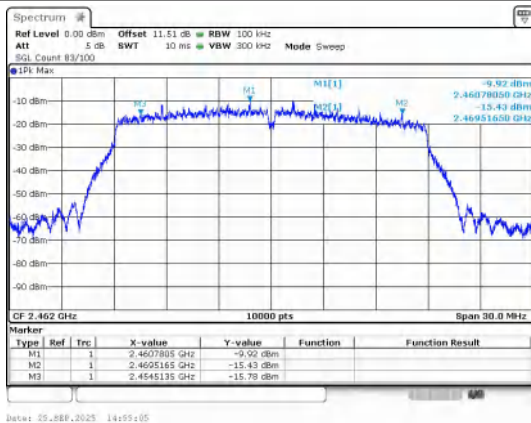
IEEE 802.11g_Channel 11_20MHz_Antenna 0



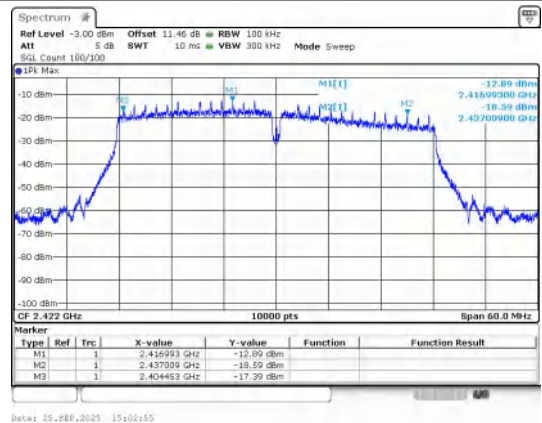
IEEE 802.11n_Channel 1_20MHz_Antenna 0



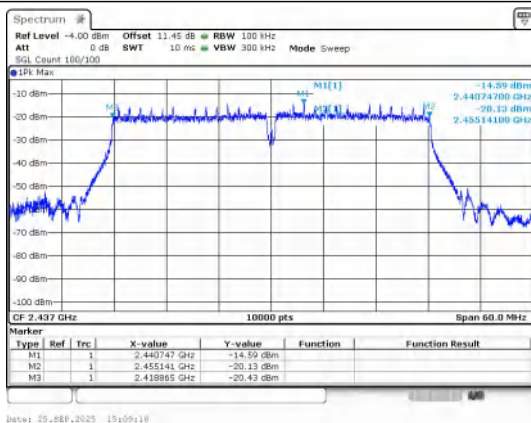
IEEE 802.11n_Channel 6_20MHz_Antenna 0



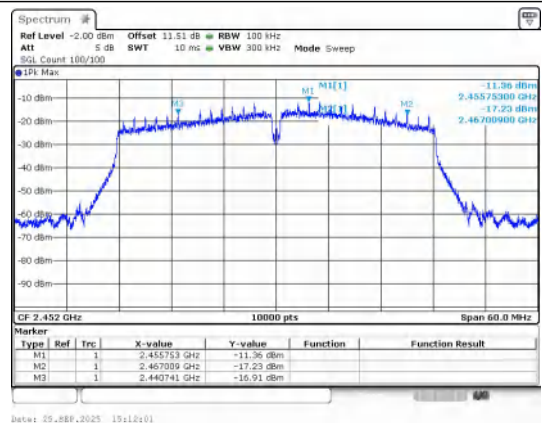
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0

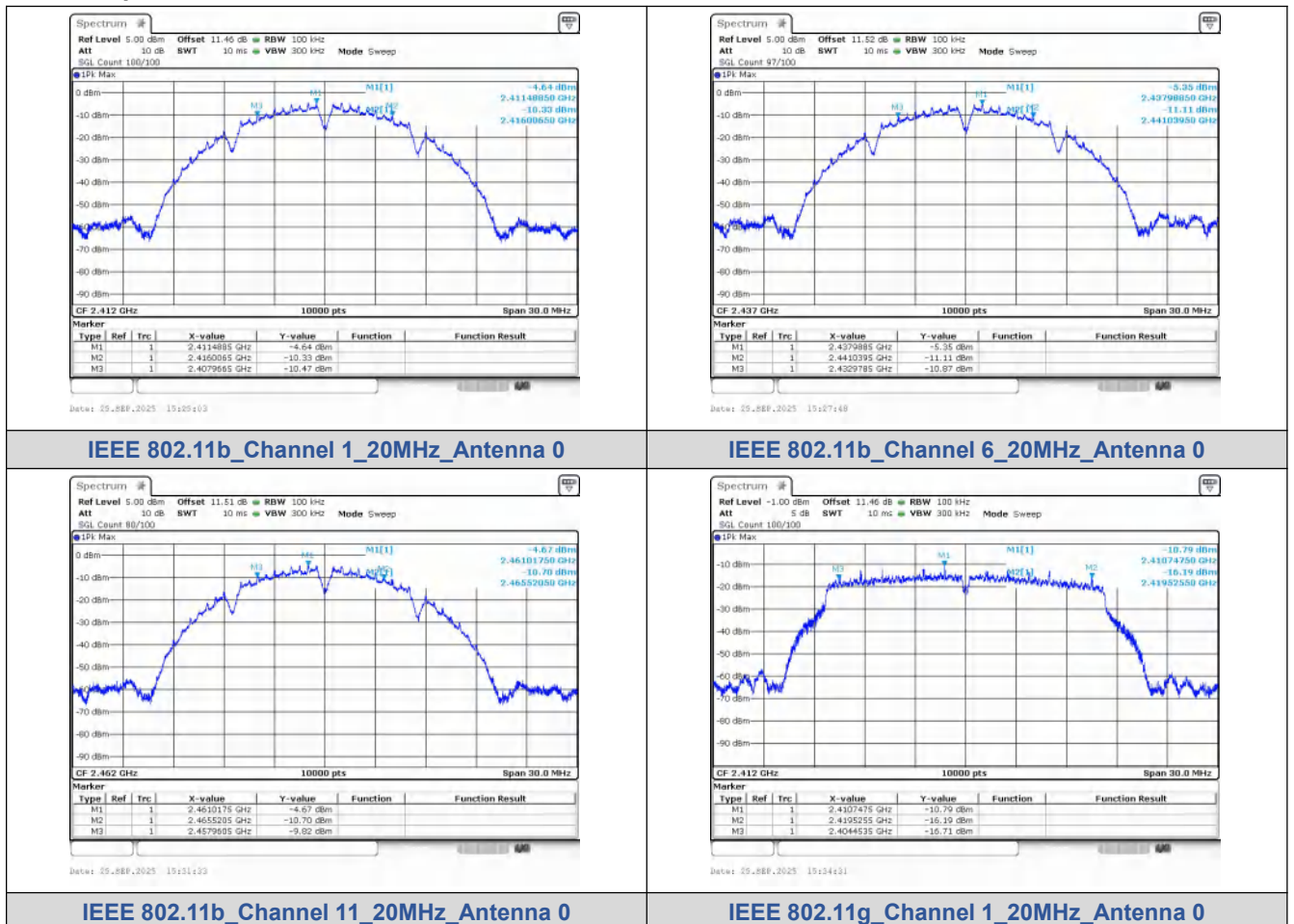
IEEE 802.11n_Channel 6_40MHz_Antenna 0

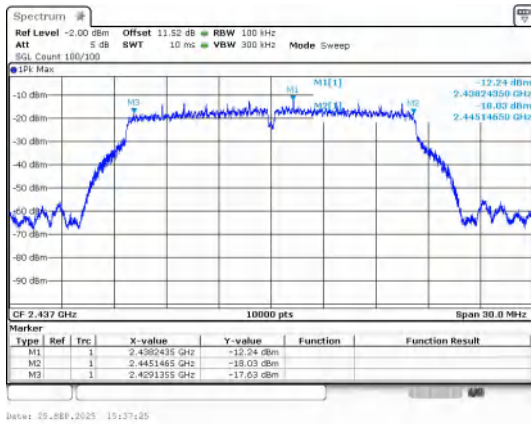
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant3: Test Result

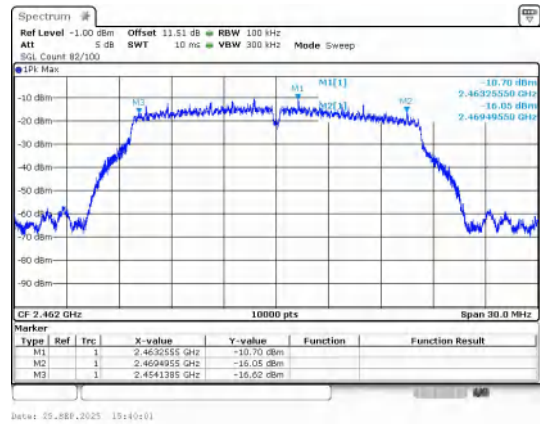
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.040	≥0.5	PASS
	6		2437	8.060		PASS
	11		2462	7.560		PASS
IEEE 802.11g	1		2412	15.08		PASS
	6		2437	16.01		PASS
	11		2462	15.36		PASS
IEEE 802.11n_20	1		2412	15.03		PASS
	6		2437	14.87		PASS
	11		2462	15.06		PASS
IEEE 802.11n_40	3		2422	30.05		PASS
	6		2437	35.61		PASS
	9		2452	26.29		PASS

Test Graphs

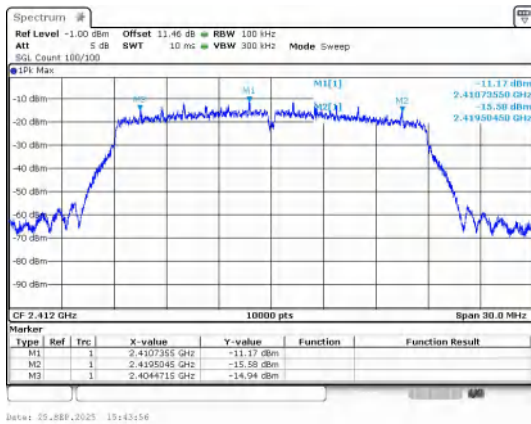




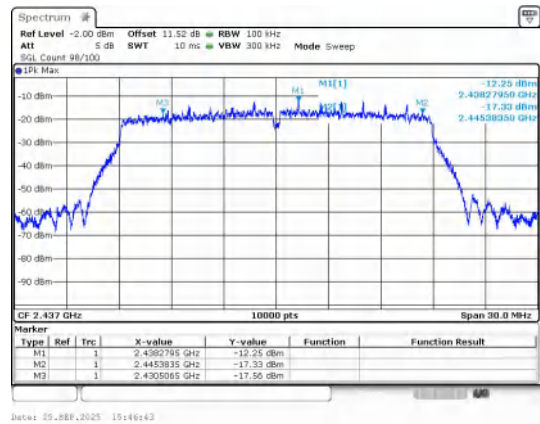
IEEE 802.11g_Channel 6_20MHz_Antenna 0



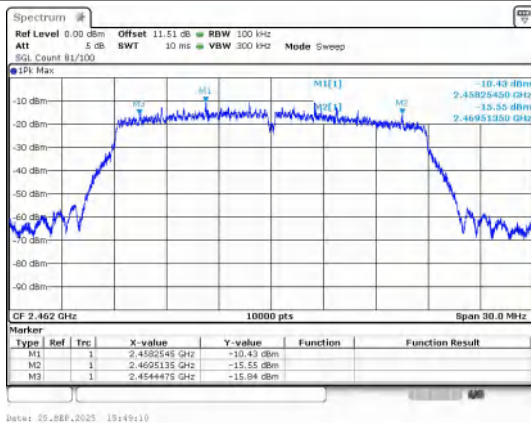
IEEE 802.11g_Channel 11_20MHz_Antenna 0



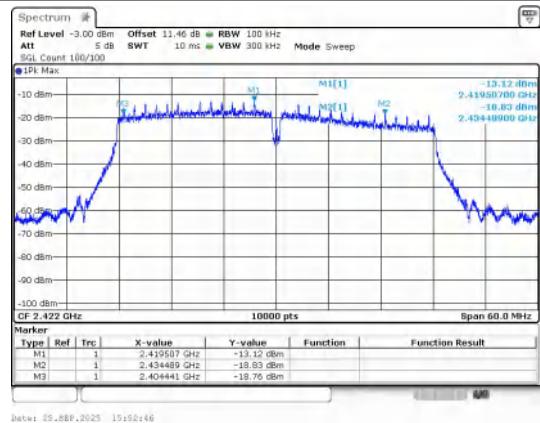
IEEE 802.11n_Channel 1_20MHz_Antenna 0



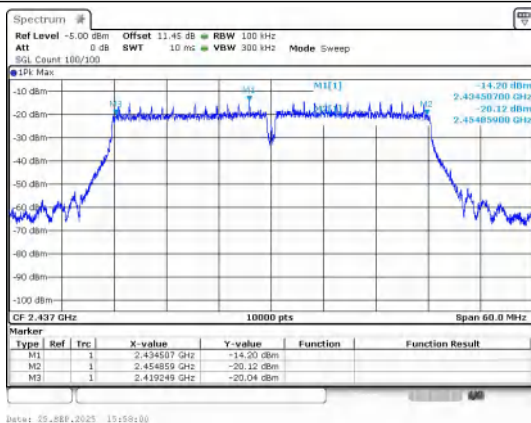
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

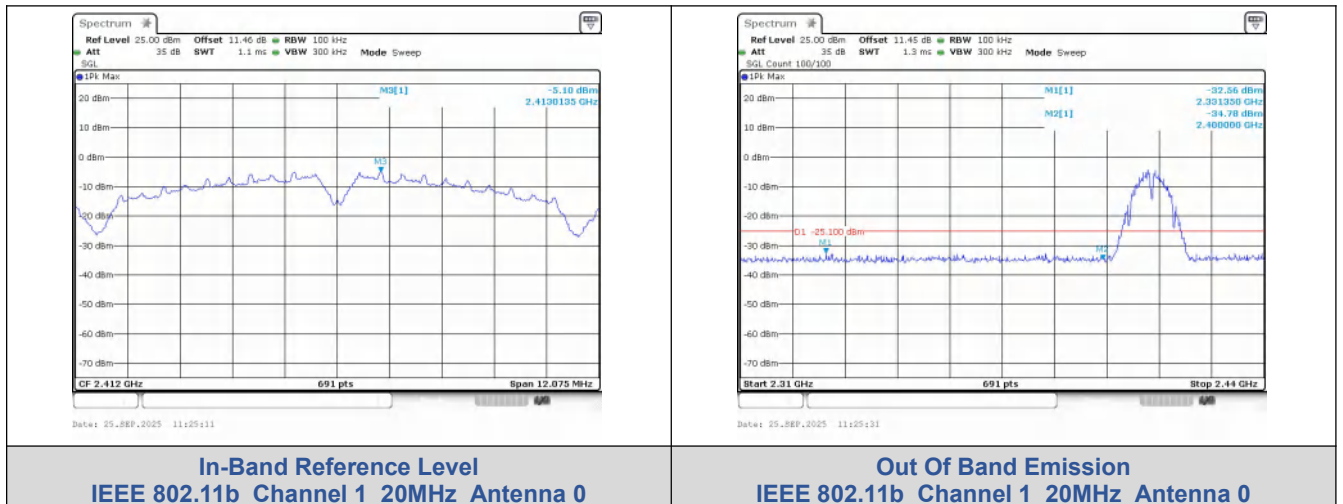
IEEE 802.11n_Channel 9_40MHz_Antenna 0

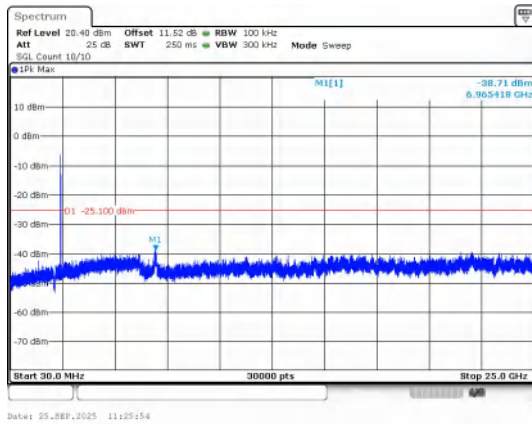
6.5. Conducted Out Of Band Emission

Ant1:

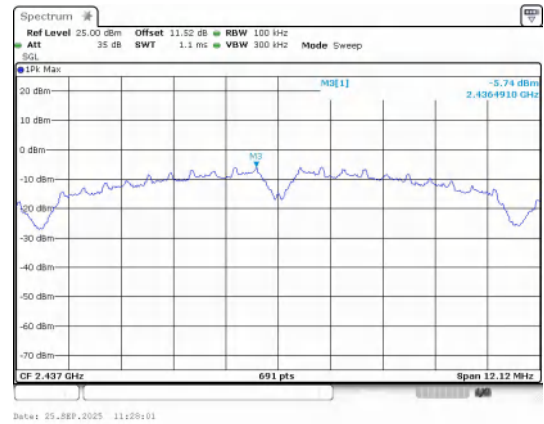
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2331.35	-32.564	-25.1	-7.464	PASS
			2400.00	-34.780	-25.1	-9.680	PASS
			6965.40	-38.713	-25.1	-13.613	PASS
	6		6918.81	-38.485	-25.74	-12.745	PASS
	11		2483.50	-34.800	-24.86	-9.940	PASS
			6987.06	-38.747	-24.86	-13.887	PASS
IEEE 802.11g	1	0	2361.83	-42.811	-29.43	-13.381	PASS
			2400.00	-43.790	-29.43	-14.360	PASS
			6914.60	-38.083	-29.43	-8.653	PASS
	6		6927.96	-38.298	-31.32	-6.978	PASS
	11		2483.50	-43.940	-29.15	-14.790	PASS
			22030.7	-38.776	-29.15	-9.626	PASS
IEEE 802.11n_20	1	0	2341.51	-42.055	-30.49	-11.565	PASS
			2400.00	-44.560	-30.49	-14.070	PASS
			6935.50	-38.761	-30.49	-8.271	PASS
	6		21998.2	-38.440	-31.82	-6.620	PASS
	11		2483.50	-44.540	-29.89	-14.650	PASS
			5916.68	-38.802	-29.89	-8.912	PASS
IEEE 802.11n_40	3	0	2381.58	-42.331	-30.81	-11.521	PASS
			2400.00	-44.470	-30.81	-13.660	PASS
			22064.8	-38.086	-30.81	-7.276	PASS
	6		18057.9	-39.076	-31.1	-7.976	PASS
	9		2483.50	-43.630	-30.3	-13.330	PASS
			6898.00	-38.051	-30.3	-7.751	PASS

Test Graphs

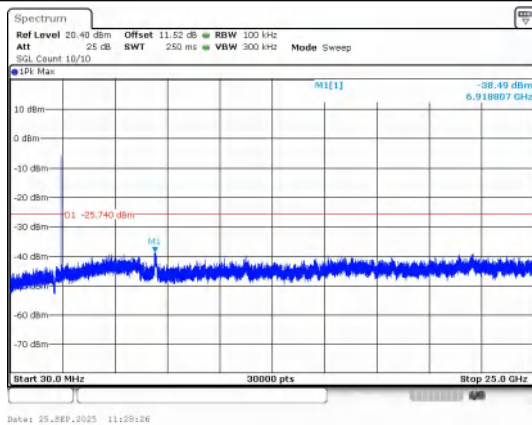




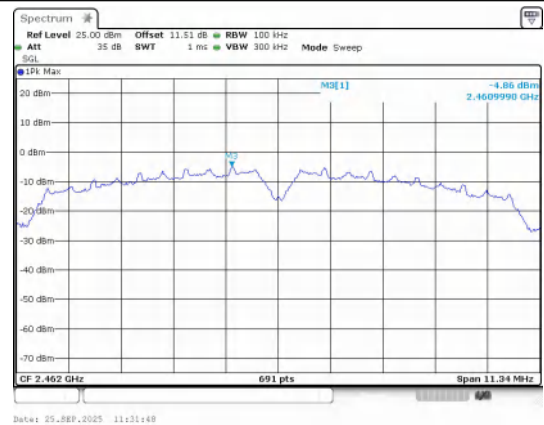
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



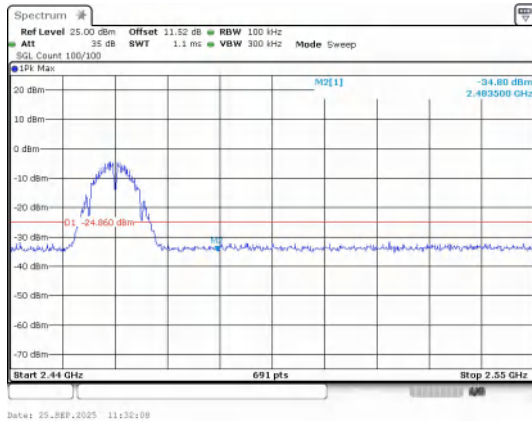
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



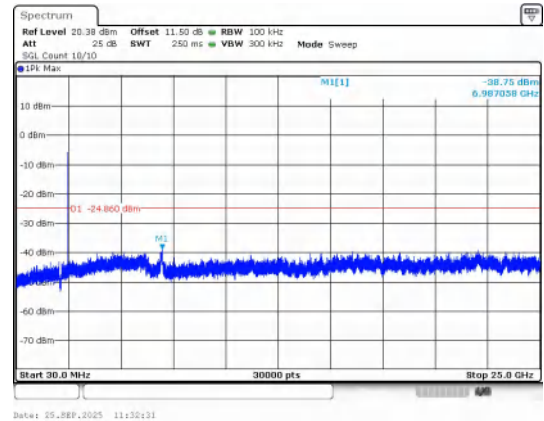
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



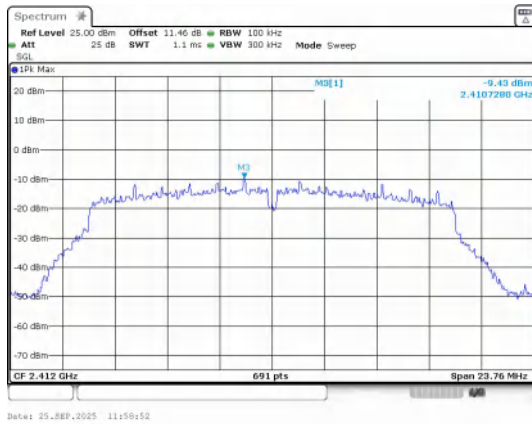
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



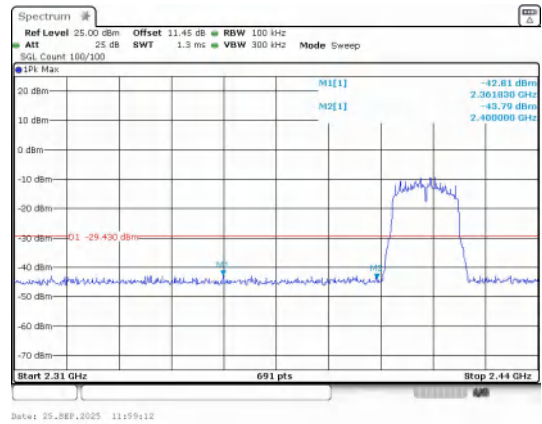
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



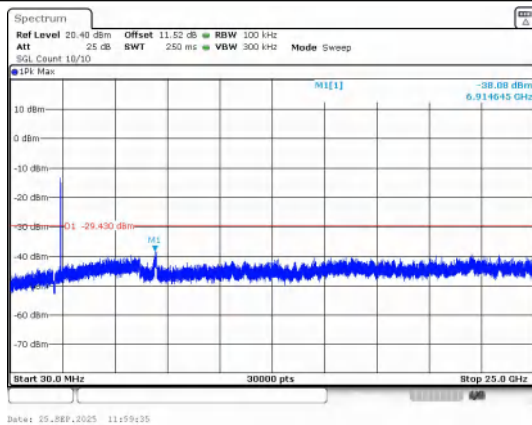
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



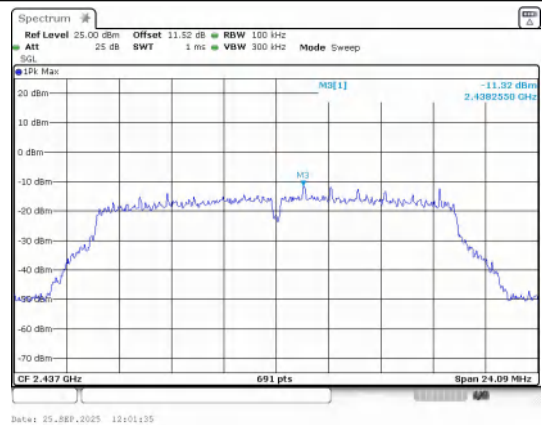
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



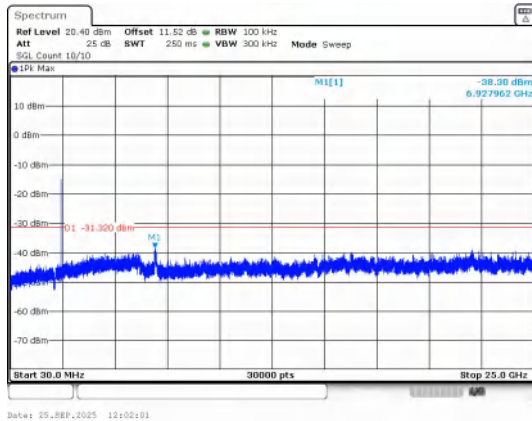
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



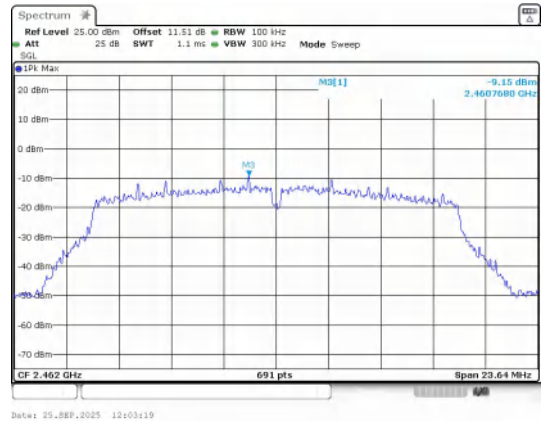
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



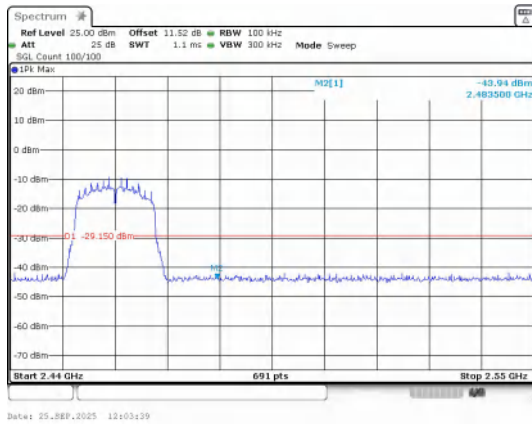
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



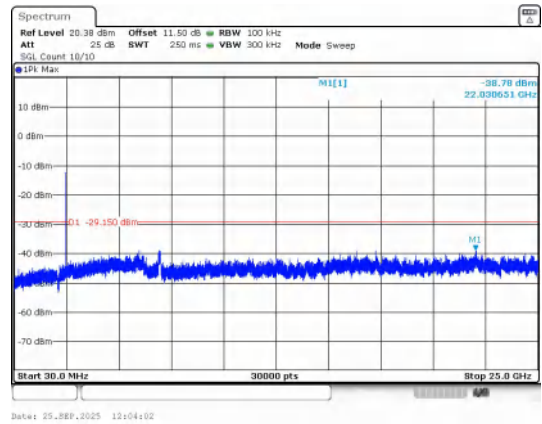
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



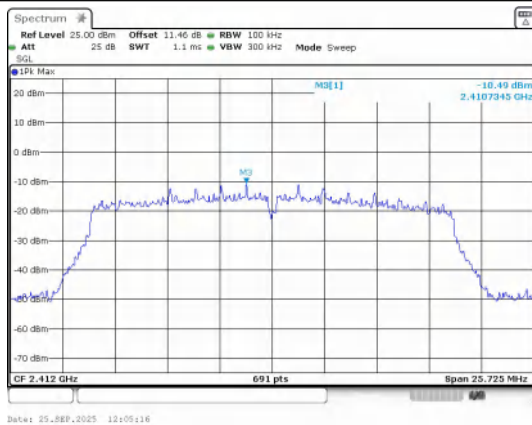
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



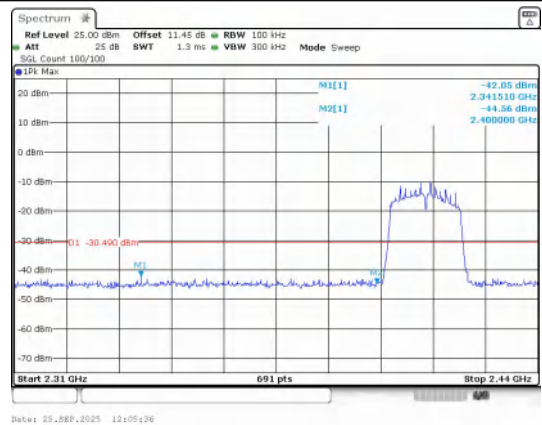
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



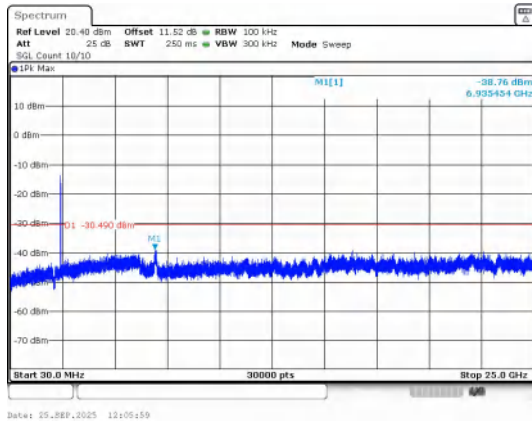
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



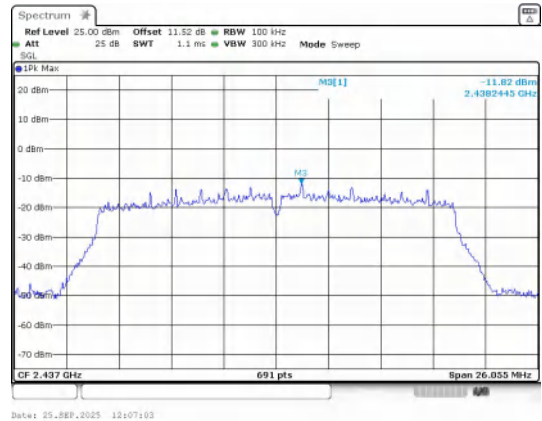
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



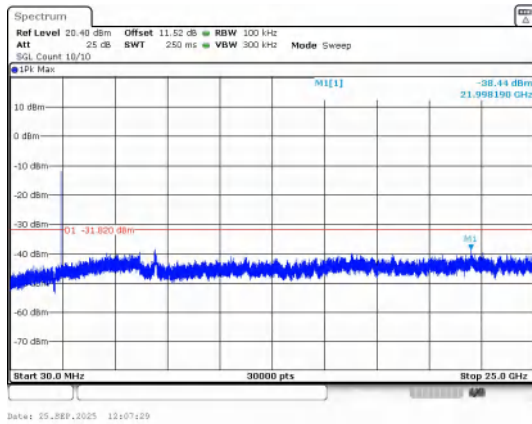
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



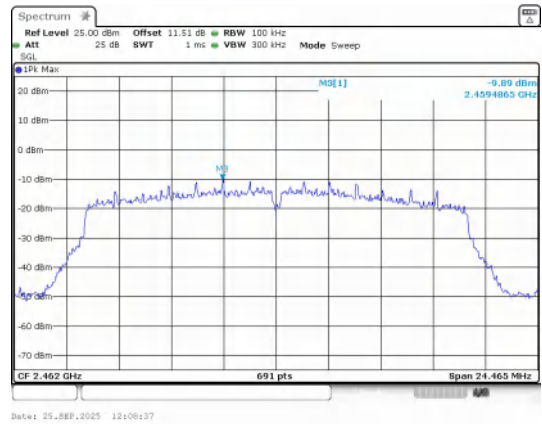
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



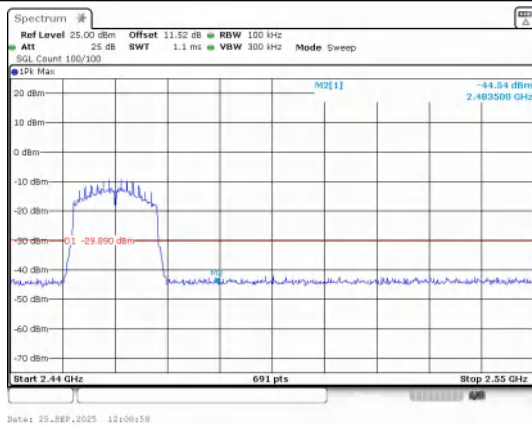
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



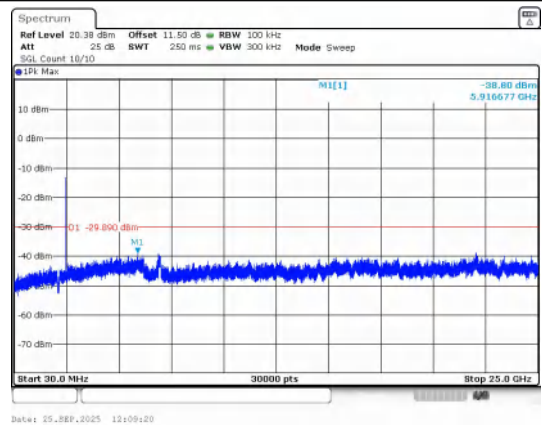
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



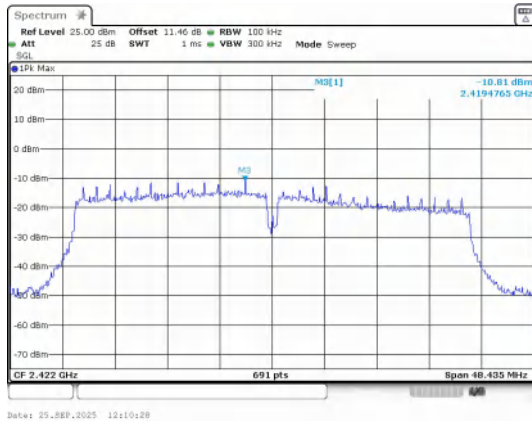
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



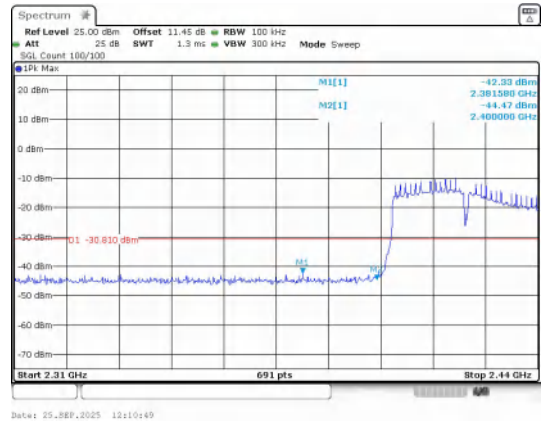
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



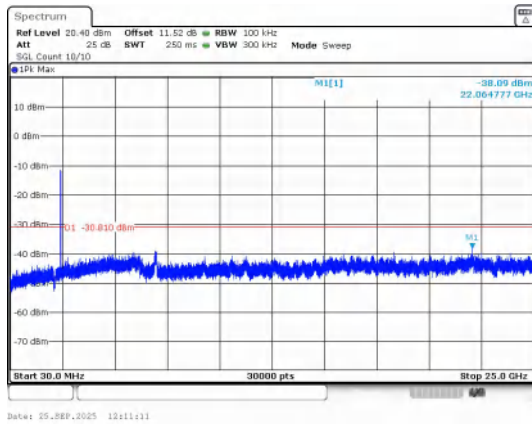
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



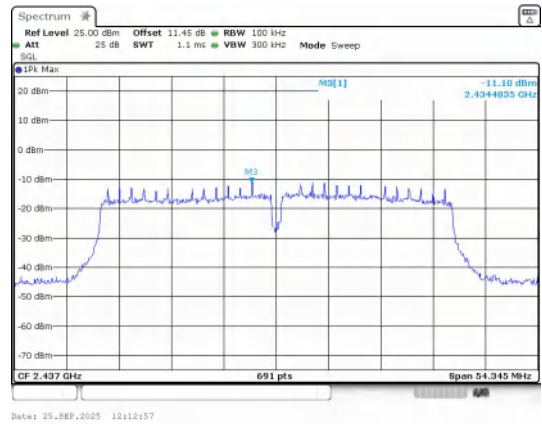
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



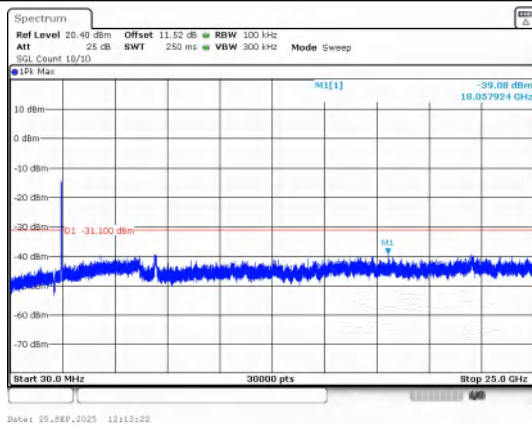
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



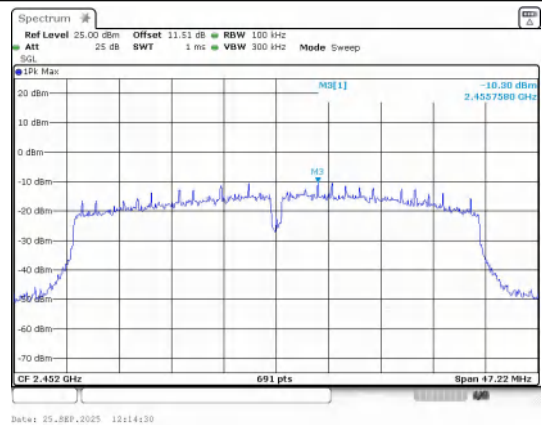
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



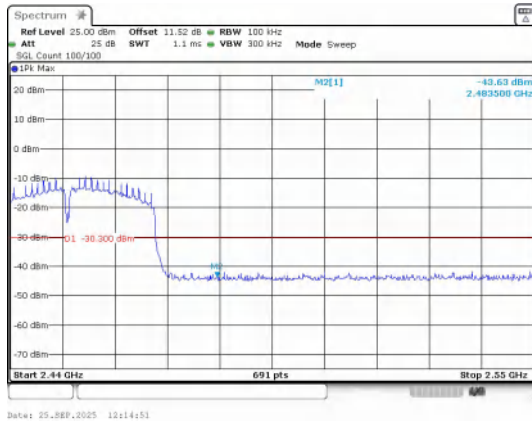
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



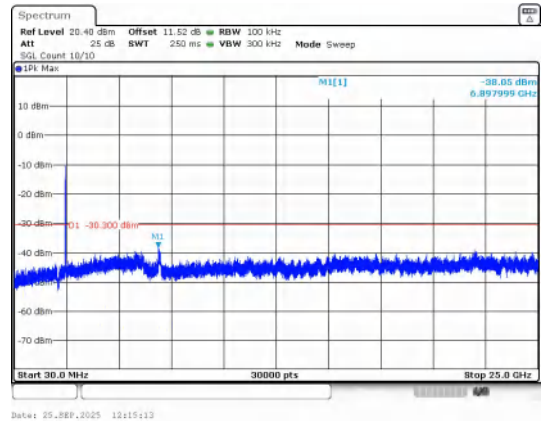
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0

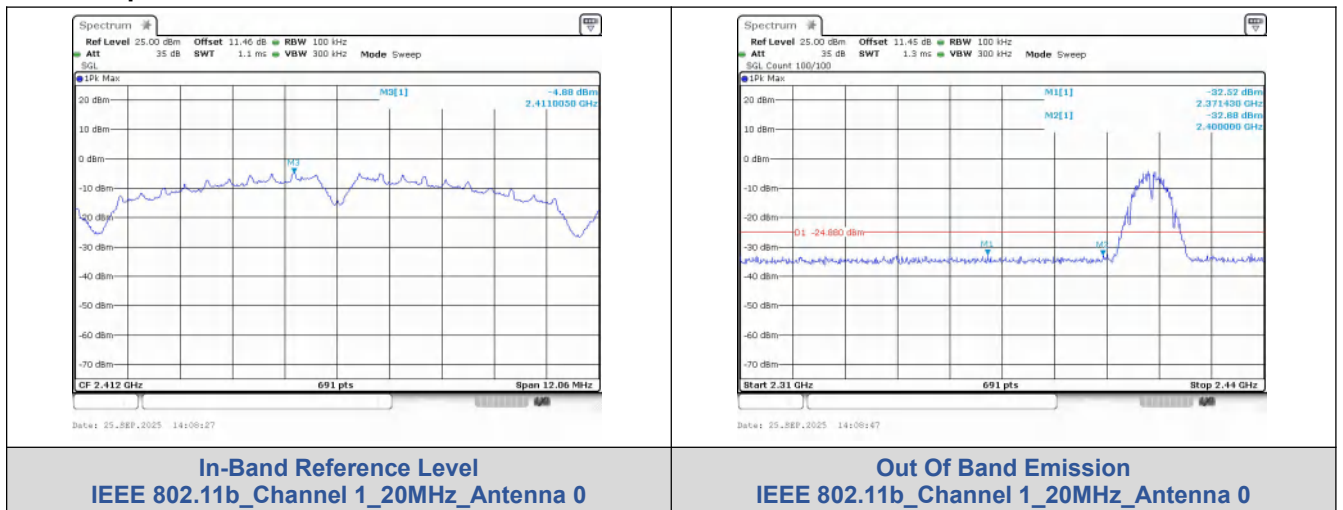


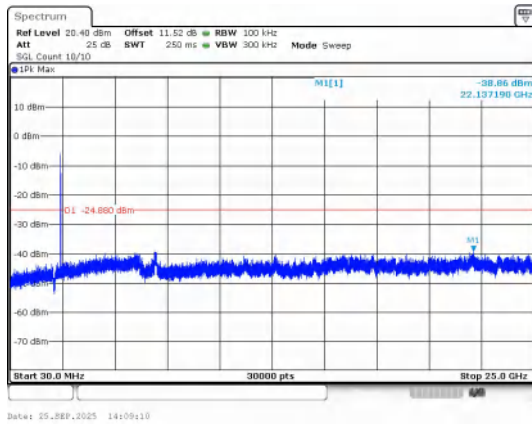
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant2: Test Result

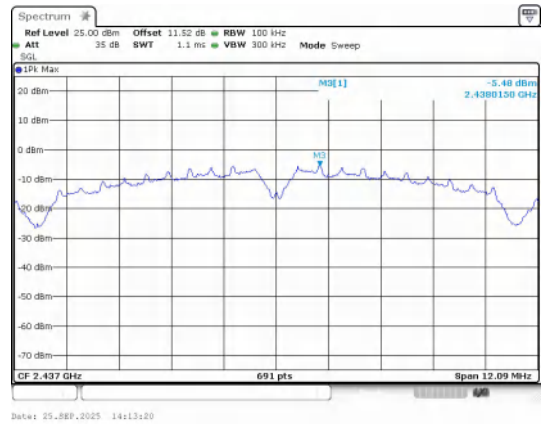
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2371.43	-32.518	-24.88	-7.638	PASS
			2400.00	-32.880	-24.88	-8.000	PASS
			22137.2	-38.863	-24.88	-13.983	PASS
	6		6898.83	-38.570	-25.48	-13.090	PASS
	11		2483.50	-33.950	-24.62	-9.330	PASS
			22020.7	-38.411	-24.62	-13.791	PASS
IEEE 802.11g	1	0	2373.49	-42.583	-32.07	-10.513	PASS
			2400.00	-44.320	-32.07	-12.250	PASS
			6911.30	-39.383	-32.07	-7.313	PASS
	6		18278.5	-39.498	-32.03	-7.468	PASS
	11		2483.50	-43.670	-29.85	-13.820	PASS
			5904.19	-38.336	-29.85	-8.486	PASS
2359.57			-42.138	-30.56	-11.578	PASS	
IEEE 802.11n_20	1		2400.00	-45.230	-30.56	-14.670	PASS
			6903.00	-38.138	-30.56	-7.578	PASS
			6	16722.9	-39.301	-31.67	-7.631
	11		2483.50	-42.530	-30.16	-12.370	PASS
			6123.10	-39.523	-30.16	-9.363	PASS
			2318.18	-42.045	-31.02	-11.025	PASS
IEEE 802.11n_40	3		2400.00	-45.000	-31.02	-13.980	PASS
			6910.50	-38.673	-31.02	-7.653	PASS
			6	21995.7	-37.427	-30.93	-6.497
	9		2483.50	-44.140	-30.01	-14.130	PASS
			6979.57	-39.543	-30.01	-9.533	PASS

Test Graphs

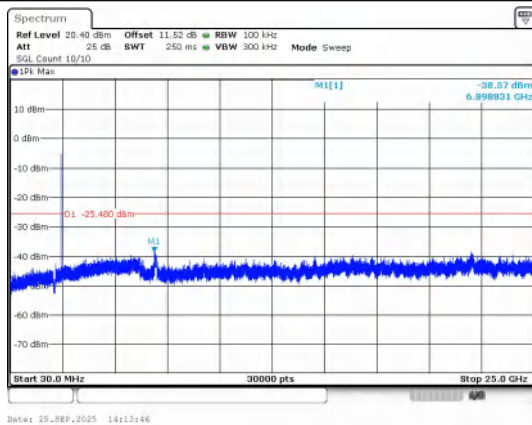




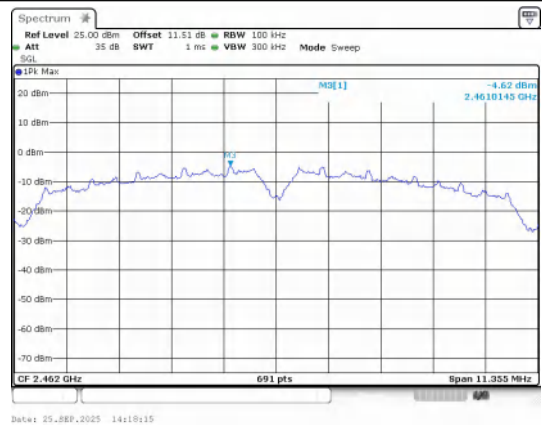
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



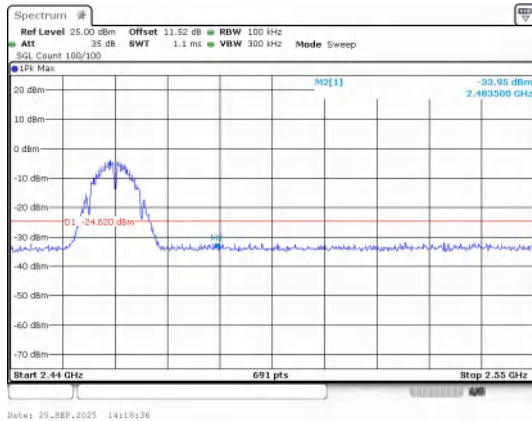
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



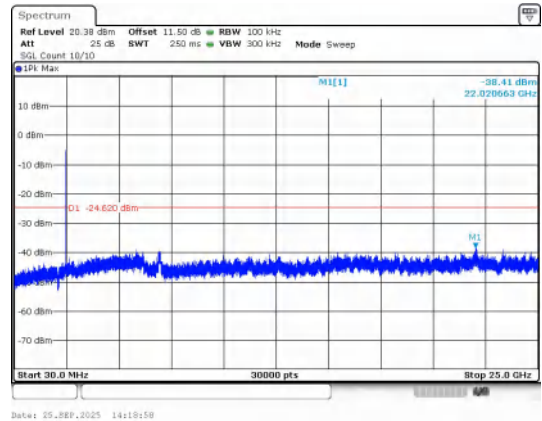
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



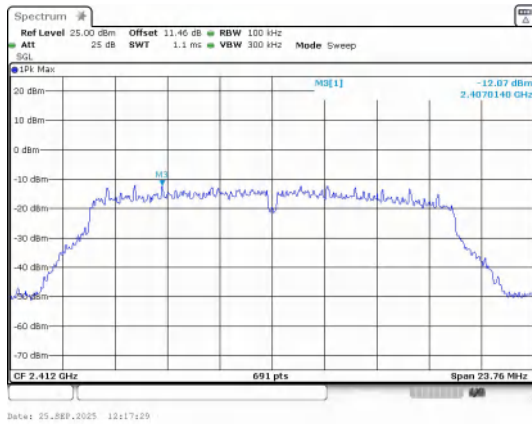
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



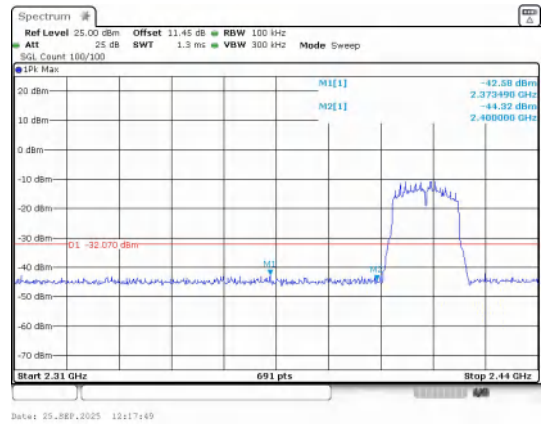
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



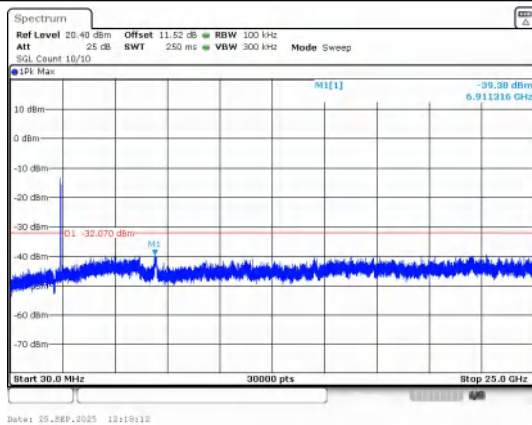
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



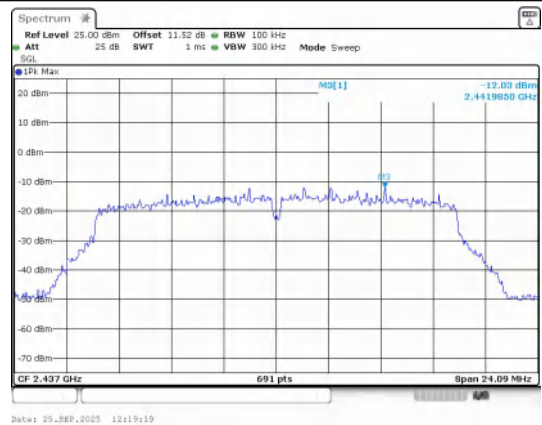
**In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



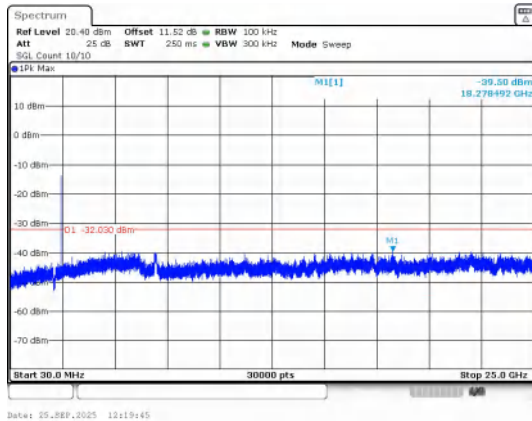
**Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



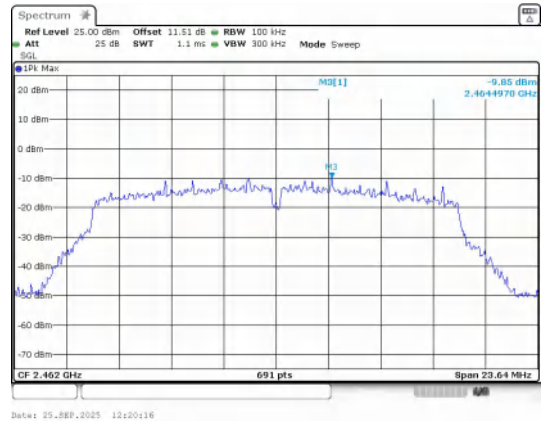
**30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



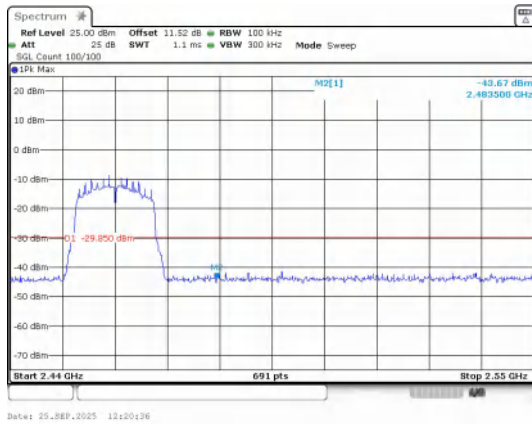
**In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0**



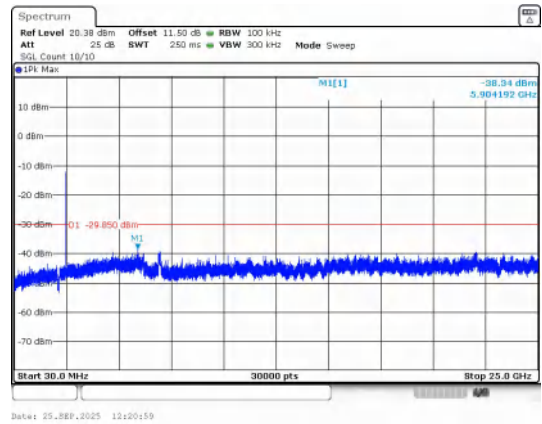
**30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0**



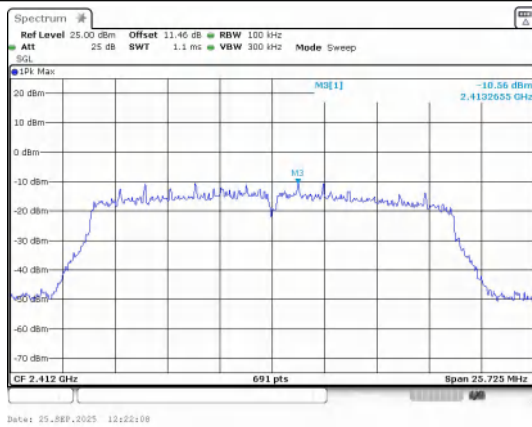
**In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0**



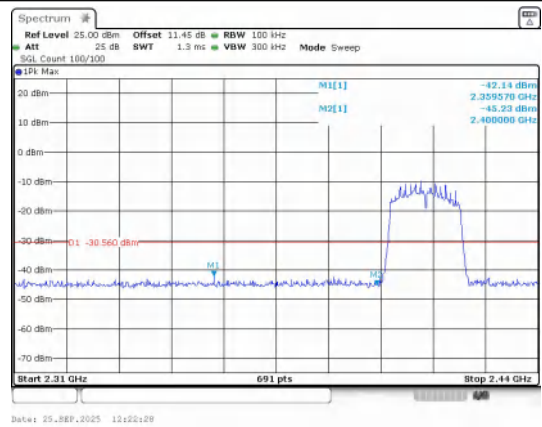
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



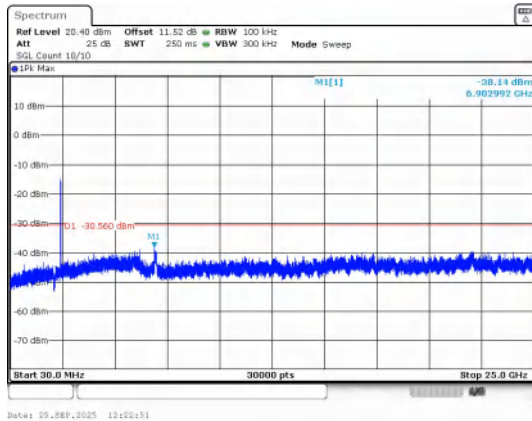
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



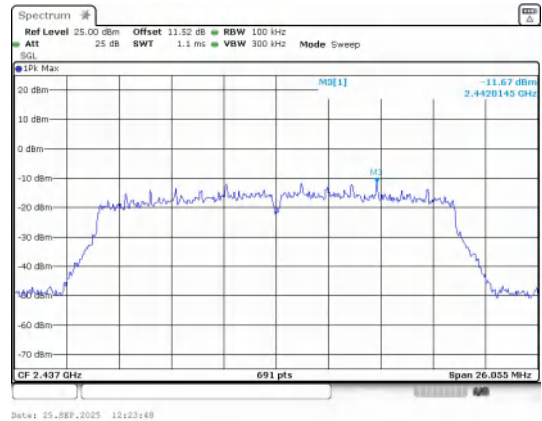
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



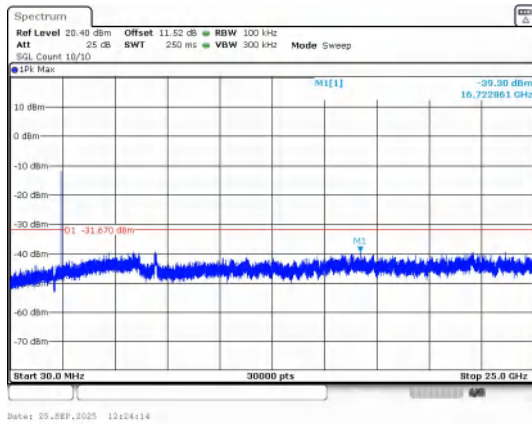
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



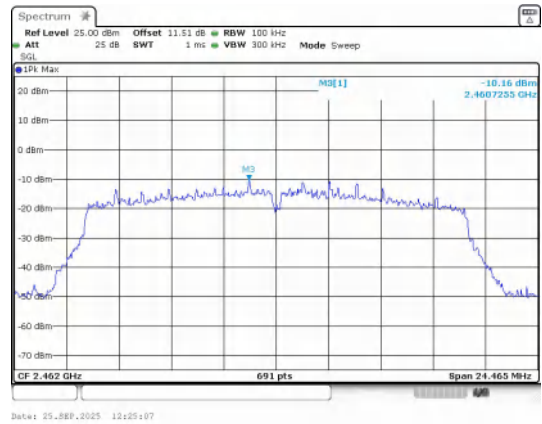
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



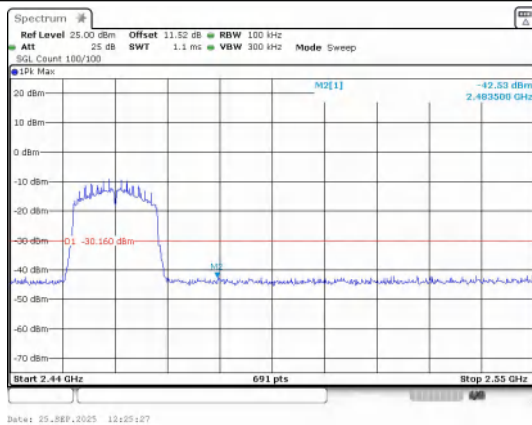
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



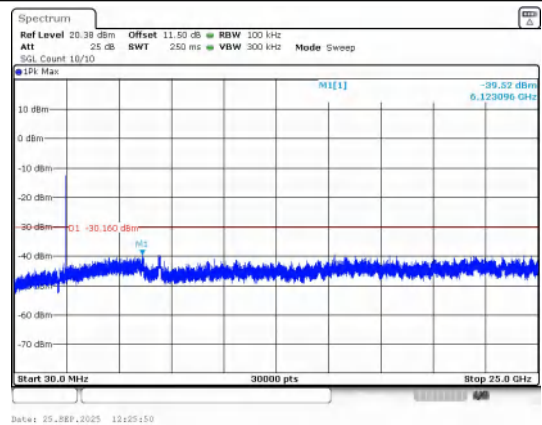
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



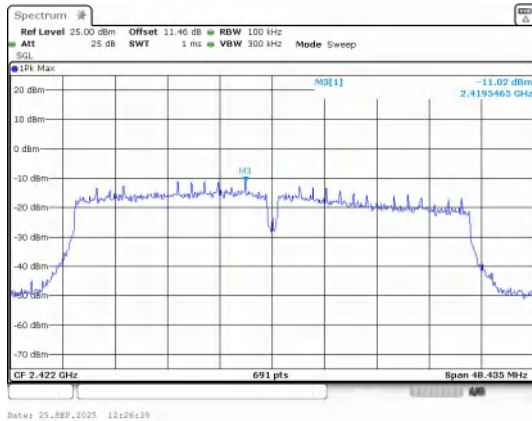
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



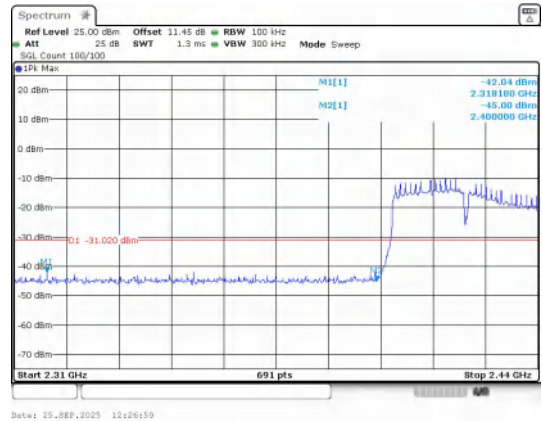
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



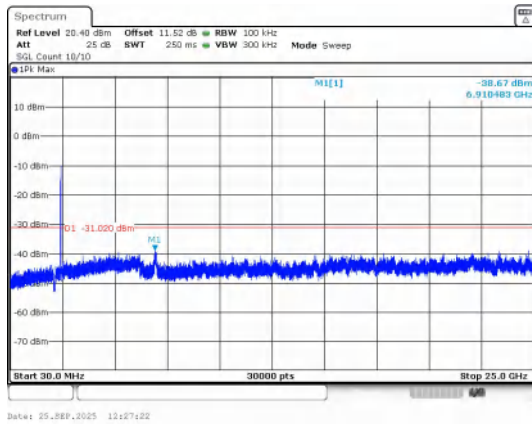
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



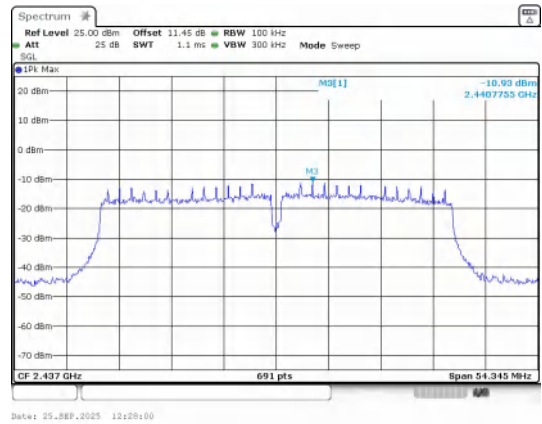
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



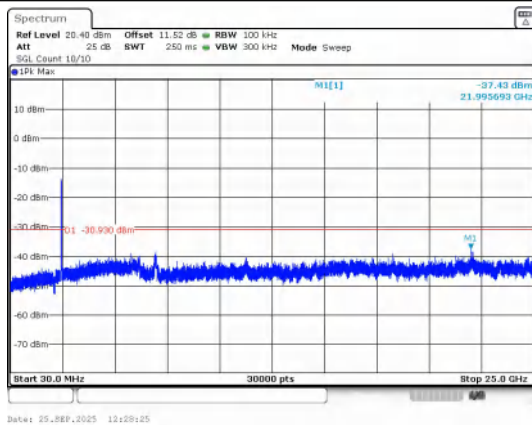
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



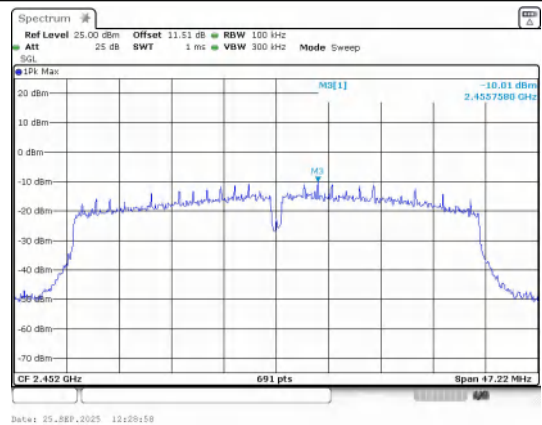
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



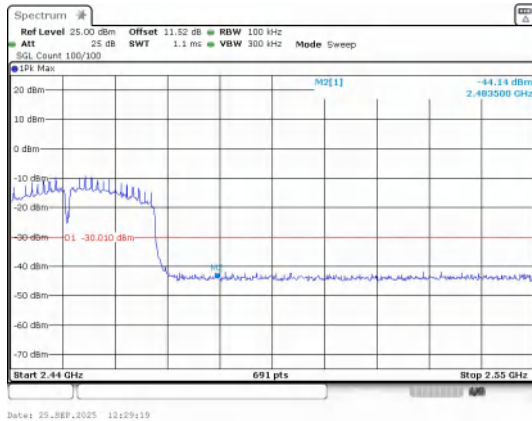
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



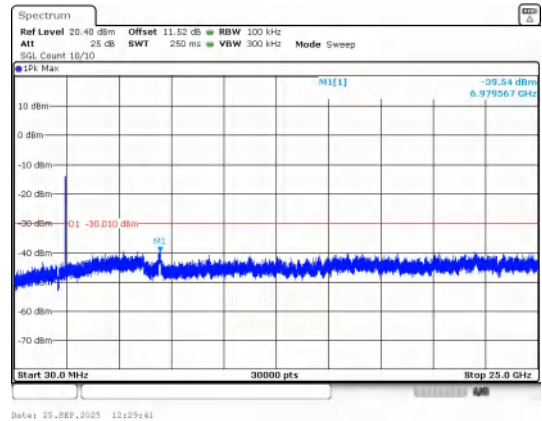
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0

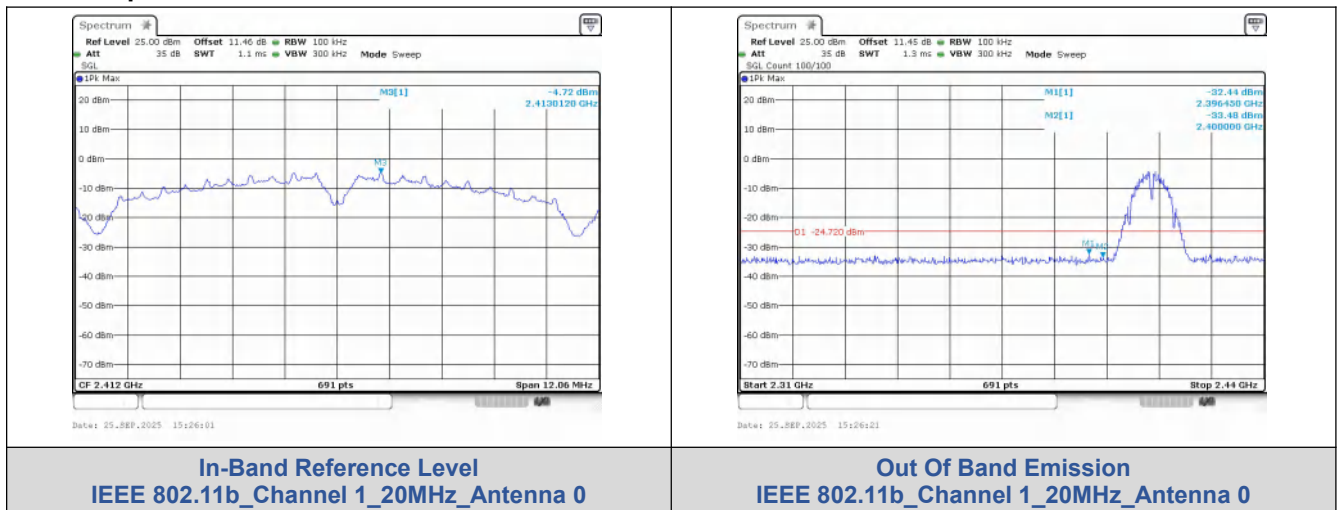


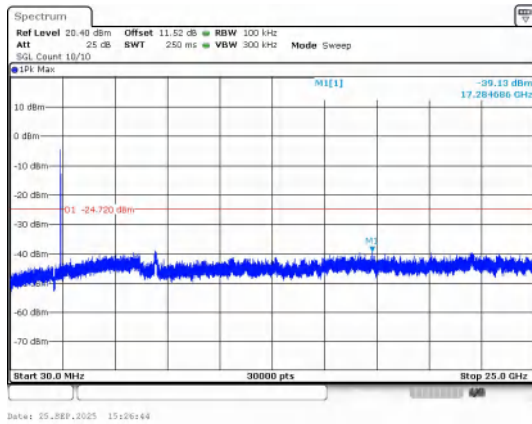
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant3: Test Result

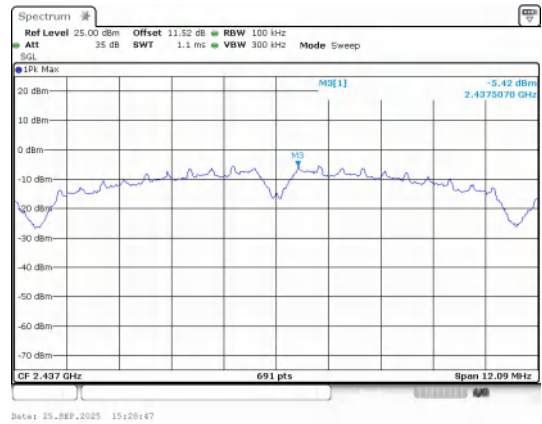
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2396.45	-32.444	-24.72	-7.724	PASS
			2400.00	-33.480	-24.72	-8.760	PASS
			17284.7	-39.133	-24.72	-14.413	PASS
	6		6957.93	-38.747	-25.42	-13.327	PASS
	11		2483.50	-33.000	-24.68	-8.320	PASS
			6913.81	-39.029	-24.68	-14.349	PASS
IEEE 802.11g	1	0	2365.03	-42.538	-32.17	-10.368	PASS
			2400.00	-43.150	-32.17	-10.980	PASS
			23401.5	-39.066	-32.17	-6.896	PASS
	6		20630.7	-38.066	-31.16	-6.906	PASS
	11		2483.50	-44.660	-30.65	-14.010	PASS
			6902.99	-38.308	-30.65	-7.658	PASS
IEEE 802.11n_20	1	0	2358.07	-42.554	-31.6	-10.954	PASS
			2400.00	-44.930	-31.6	-13.330	PASS
			4803.00	-39.451	-31.6	-7.851	PASS
	6		6894.67	-39.358	-31.76	-7.598	PASS
	11		2483.50	-43.430	-30.43	-13.000	PASS
			22006.5	-39.015	-30.43	-8.585	PASS
IEEE 802.11n_40	3	0	2318.00	-42.393	-33.69	-8.703	PASS
			2400.00	-45.690	-33.69	-12.000	PASS
			21979.9	-37.920	-33.69	-4.230	PASS
	6		21948.2	-39.414	-34.48	-4.934	PASS
	9		2483.50	-44.440	-33.06	-11.380	PASS
			6942.11	-38.263	-33.06	-5.203	PASS

Test Graphs

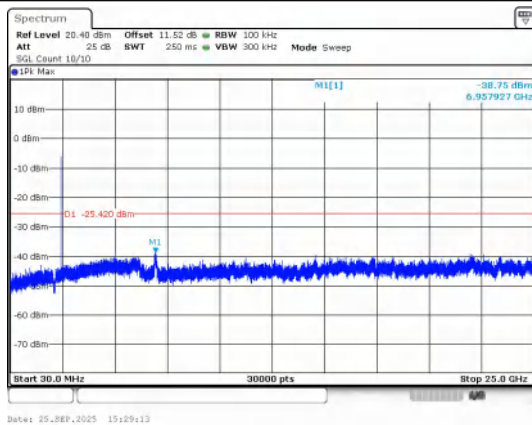




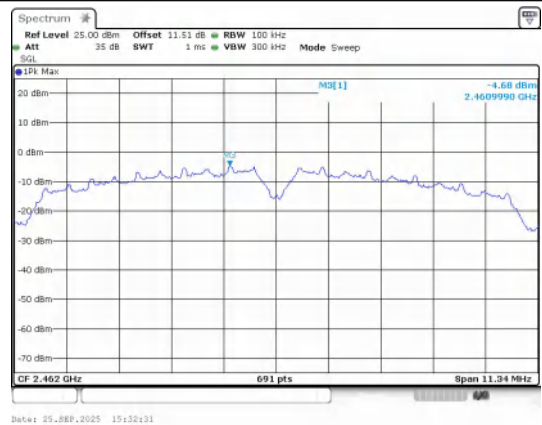
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



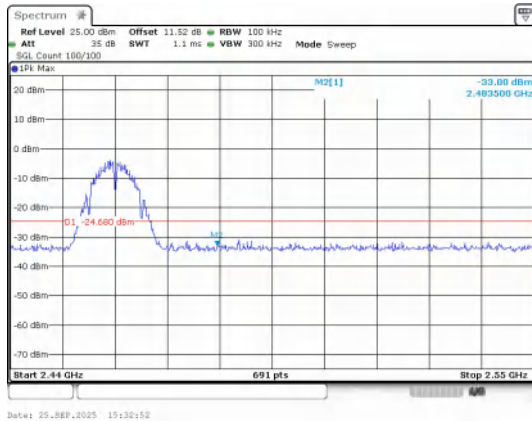
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



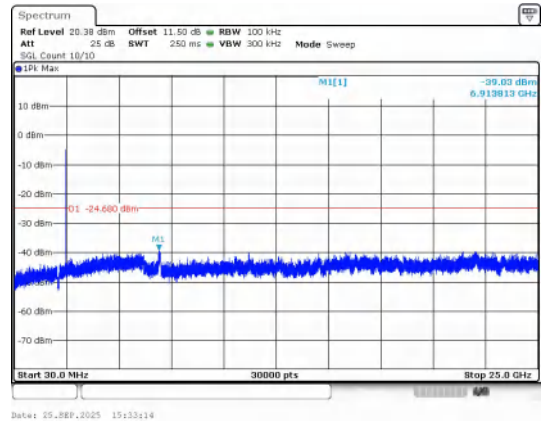
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



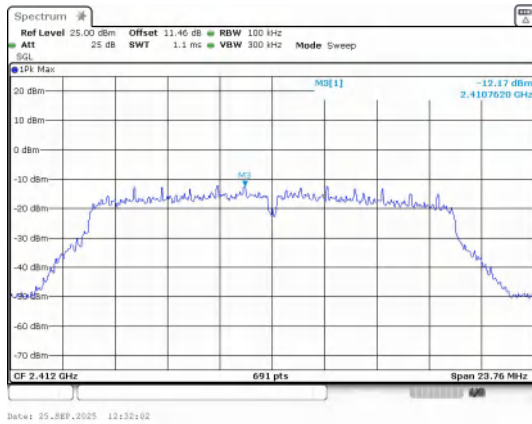
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



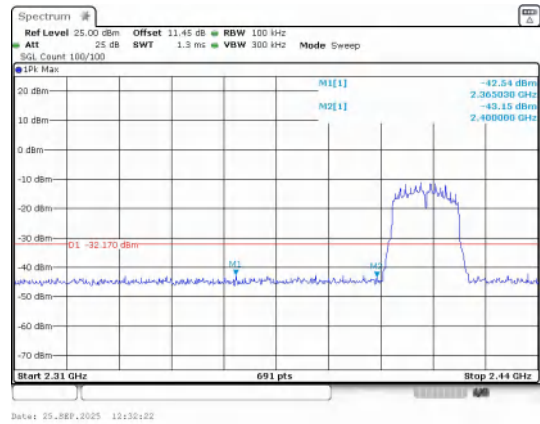
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



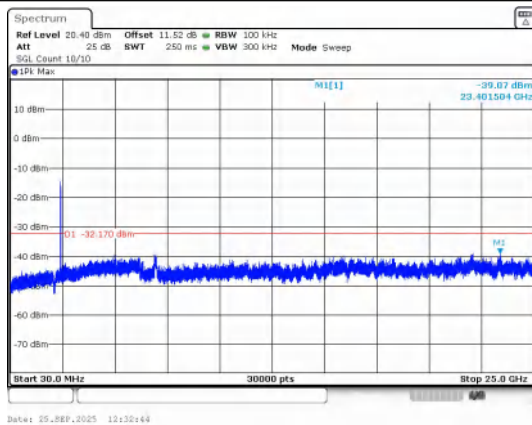
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



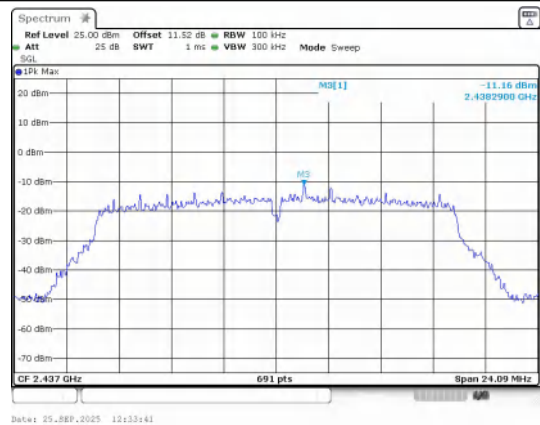
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



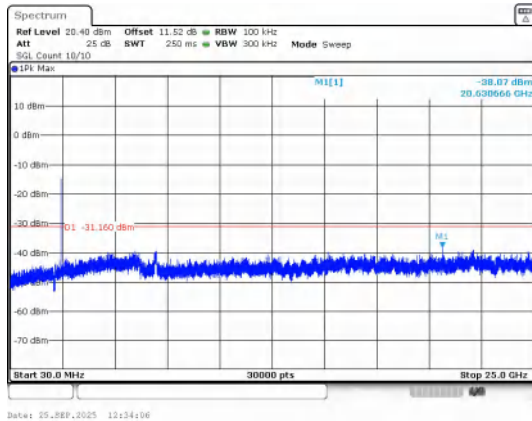
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



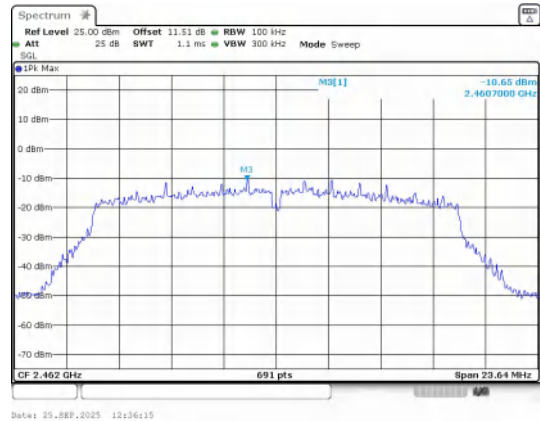
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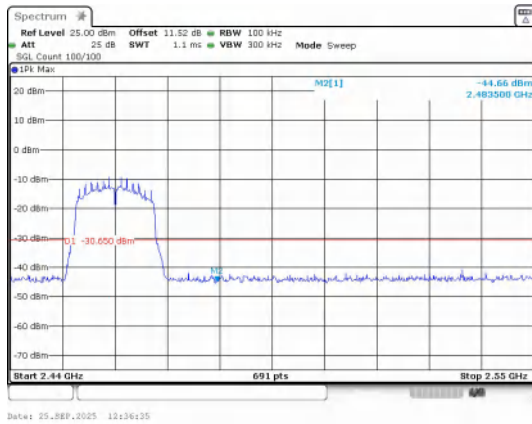
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



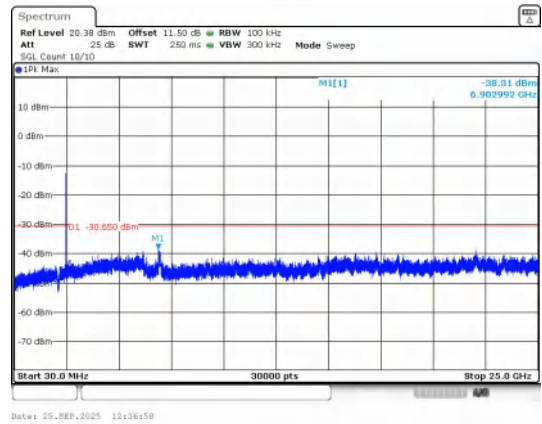
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



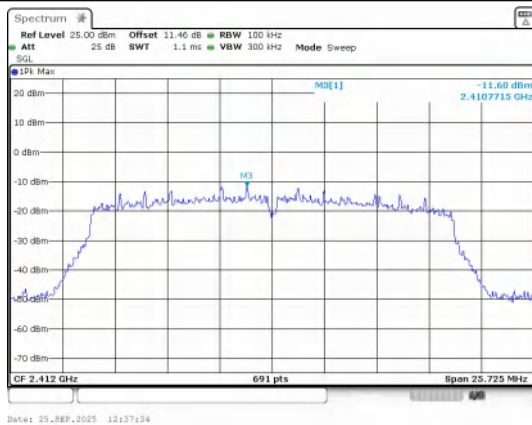
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



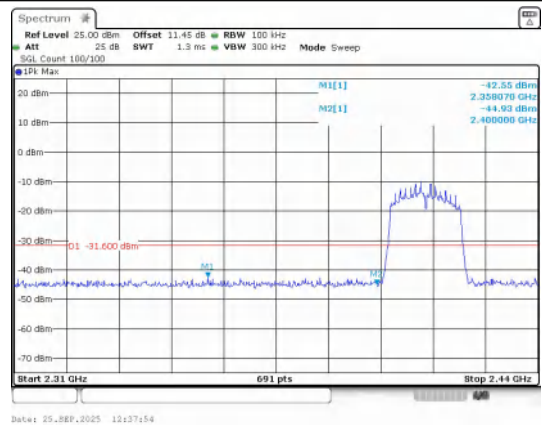
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



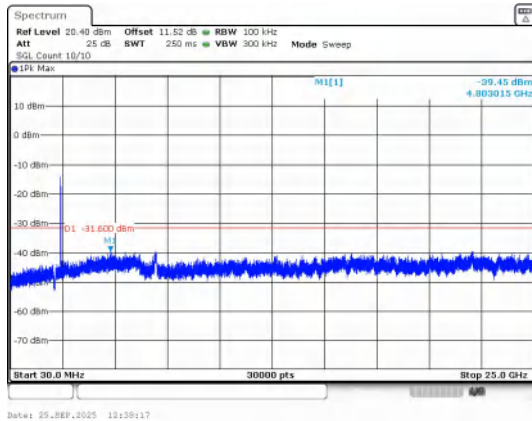
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



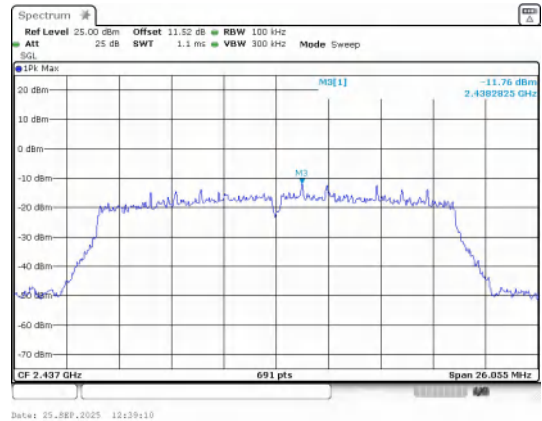
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



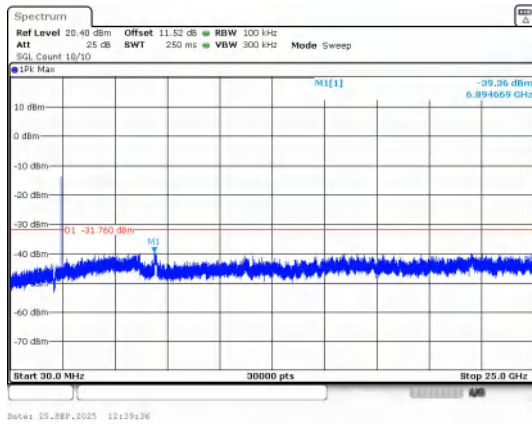
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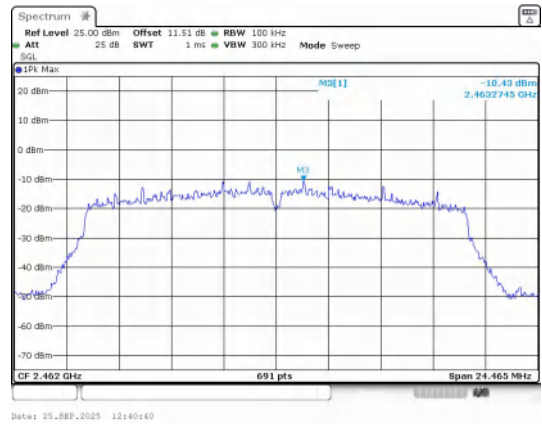
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



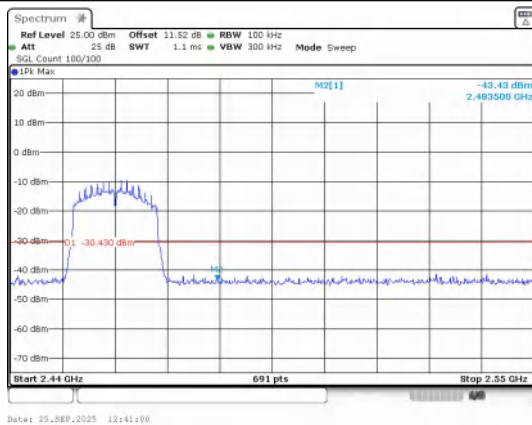
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



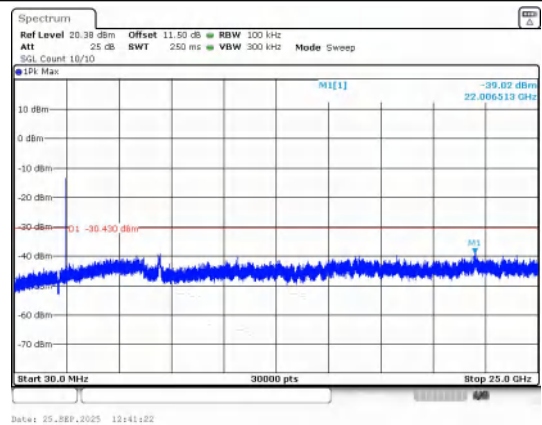
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



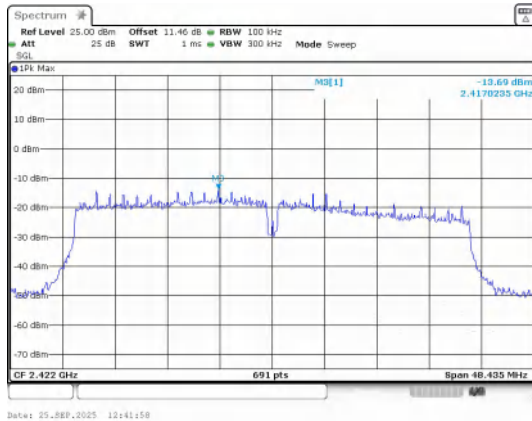
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



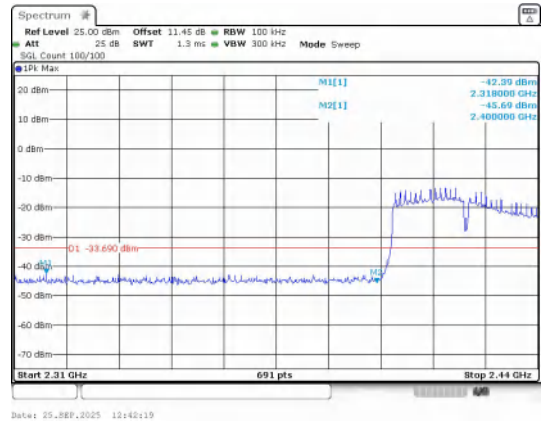
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



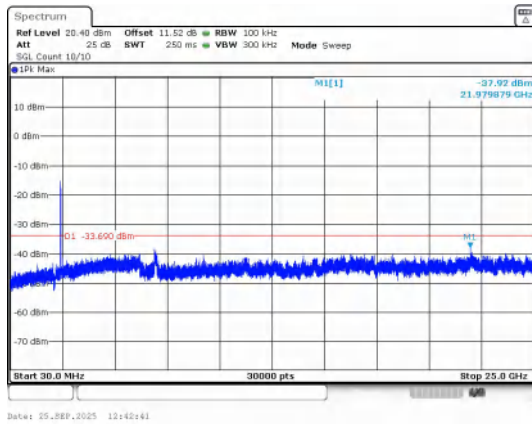
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



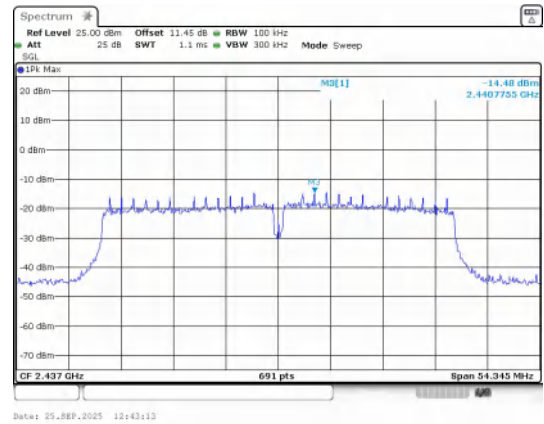
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



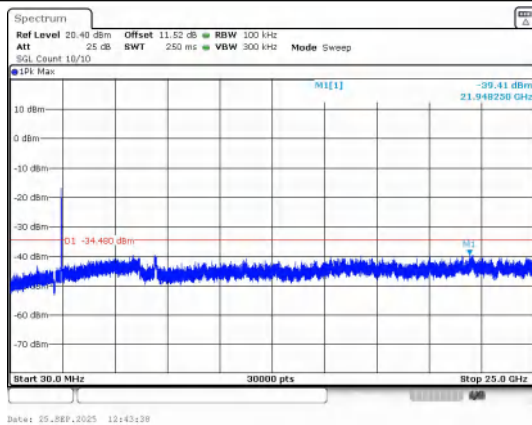
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



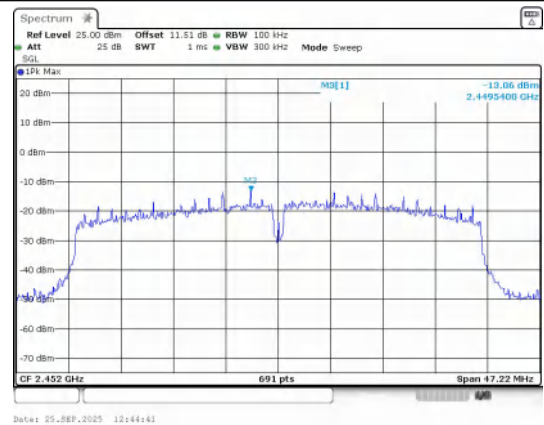
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IEEE 802.11n_Channel 3_40MHz_Antenna 0



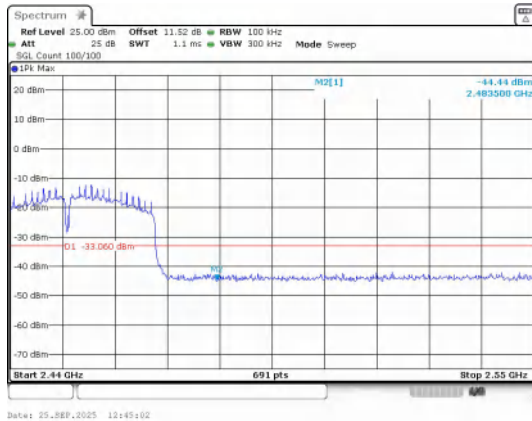
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



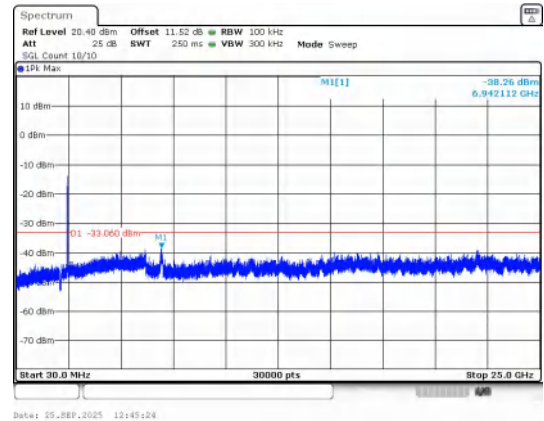
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0