

TEST REPORT

Report No.	CISRR25112418901
Project No.	CISR251124189
FCC ID	2BMSK-2000-26-0005
Applicant	Rehan Electronics Ltd.
Address	Brunswick Row, Aughrim Road, Carnew Co. Wicklow Y14 NY60, Republic of Ireland
Manufacturer	DAS INDUSTRY LIMITED
Address	Room 807, No.58 Building, 260 Maoyuan Road, Fengxian District, Shanghai 201400, PRC.
Product Name	LookyBOT Wi-Fi Camera
Trade mark	-
Model/Type reference	2000-26-0005
Listed Model(s)	-
Standard	47 CFR Part 15.247
Date of sample receipt	November 27, 2025
Test date	November 27, 2025 to December 23, 2025
Issue date	December 23, 2025
Test result	Complied

Lucas Huang

Reviewed by: Lucas Huang



Approved by: Hans Hu

The test results relate only to the tested samples.

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1. STANDARD AND APPLICABLE TEST METHODS

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. REPORT VERSION

Version No.	Issue date	Description
00	December 23, 2025	Original

3. 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.

4. SUMMARY

4.1. Product Description *

Main unit information:	
Product Name:	LookyBOT Wi-Fi Camera
Trade mark:	-
Model No.:	2000-26-0005
Listed Model(s):	-
Model difference:	-
Power supply:	DC 12V for Type-C
Hardware version:	-
Software version:	-
Accessory unit (AU) information:	
Battery information:	DC 7.2V

4.2. 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:	3.5dBi

Note:

- 1) *: As the above information is provided by the applicant, all relevant results and conclusions of this report are based solely on such information. Bangce lab shall not be liable for the authenticity, integrity, and resulting outcomes of the information, and/or the validity of the conclusions herein.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

4.3. Modification of EUT

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

4.4. Deviation from standards

None

4.5. 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

5. TEST CONFIGURATION

5.1. 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

5.2. 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.
TM6	Charging mode	Keep the EUT in charging mode status

5.3. Test sample information

Type	Sample No.
Engineer sample	CISR251124189-S01
Normal sample	CISR251124189-S02

5.4. Environmental conditions

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

5.5. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Emission at AC power line (150kHz ~ 30MHz)	3.52dB
2	Bandwidth	0.19%
3	Conducted output power	1.38dB
4	Power spectral density	1.39dB
5	Conducted spurious emission	1.40dB

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

5.6. Equipment Used during the Test

Conducted Emission at AC power line

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	8*4*3 Shielding room	SKET	8m*4m*3m	CIS-EE012	2024-09-02	2027-09-01
2	EMI Test Receiver	ROHDE&SCHWARZ	ESPI7	CIS-EE043	2025-01-08	2026-01-07
3	LISN	SCHWARZBECK	NSLK 8127	CIS-EE044	2025-01-08	2026-01-07
4	LISN-AE	ETS	3810/2NM	CIS-EE075	2025-01-08	2026-01-07
5	RF Cable	SKET	-	CIS-EE071	2025-01-08	2026-01-07
6	Power Strip	BULL	GNIN-413	CIS-EE087	2025-01-08	2026-01-07
7	Test software	FARAD	EZ-CON	CIS-EE095	/	/
8	Thermohygrometer	DeLi	8866	CIS-EE069	2025-01-11	2026-01-10

Power Spectral Density
Emissions in non-restricted frequency bands
6dB Bandwidth
Maximum Conducted Output Power

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Spectrum analyzer	ROHDE&SCHWARZ	FSV-40N	CIS-EE076	2025-01-08	2026-01-07
2	Notch Filter Assembly	WCS	SMU-1003	CIS-EE093	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	CIS-RE012	2025-01-08	2026-01-07
4	Analog Signal Generator	Agilent	N5181A	CIS-RE013	2025-01-08	2026-01-07
5	Test software	WCS	WCN-Regulator y	CIS-EE103	/	/

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	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
2	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
3	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
4	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2026-01-08

5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
6	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023-01-09	2026-01-08
7	RF Cable	Tonscend	Cable 1	/	2025-01-08	2026-01-07
8	RF Cable	Tonscend	Cable 2	/	2025-01-08	2026-01-07
9	RF Cable	SKET	Cable 3	/	2025-01-08	2026-01-07
10	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2025-01-08	2026-01-07
11	L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	/	2025-01-08	2026-01-07
12	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2026-01-08
13	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2025-01-08	2026-01-07
14	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
15	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
16	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2025-01-08	2026-01-07

6. TEST RESULTS

6.1. Evaluation Results (Evaluation)

6.1.1. 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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6.1.1.1. Test Result

Pass

6.1.1.2. 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.
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6.2. Radio Spectrum Matter Test Results (RF)

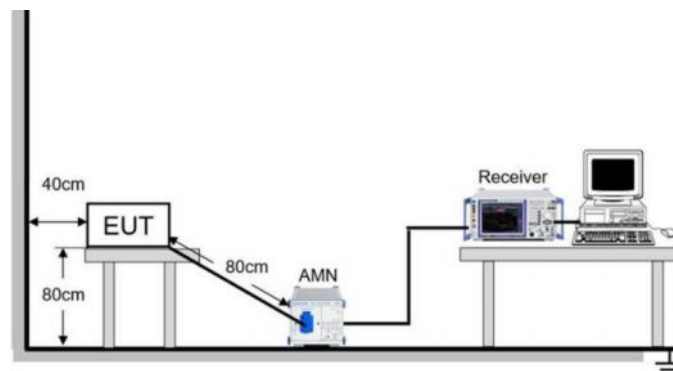
6.2.1. Conducted Emission at AC power line

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.		

6.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.4 %	Atmospheric Pressure:	102.7 kPa
Pre test mode:	TM6				
Final test mode:	TM6				

6.2.1.2. Test Setup Diagram

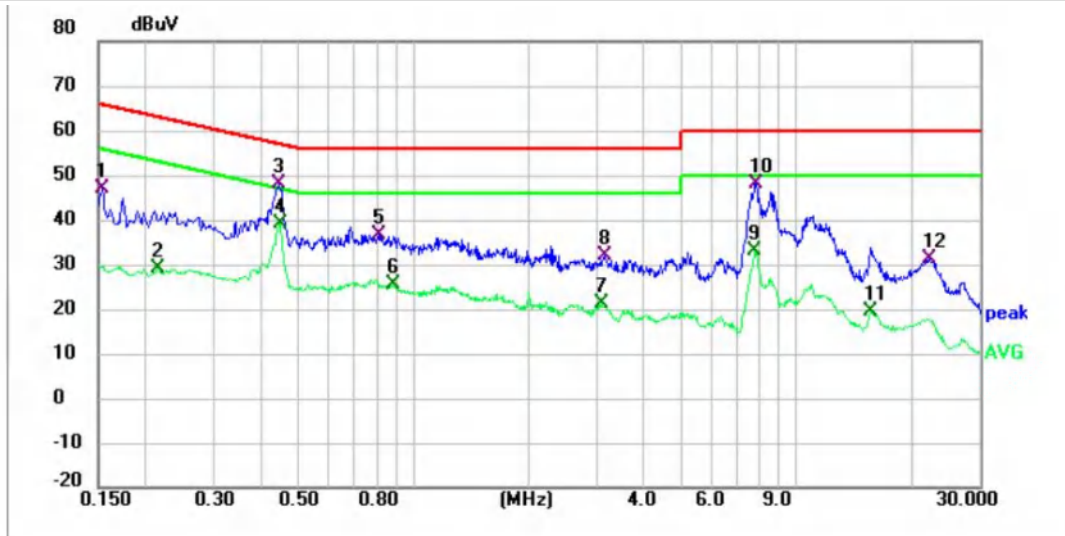


6.2.1.3. Test Result

Pass

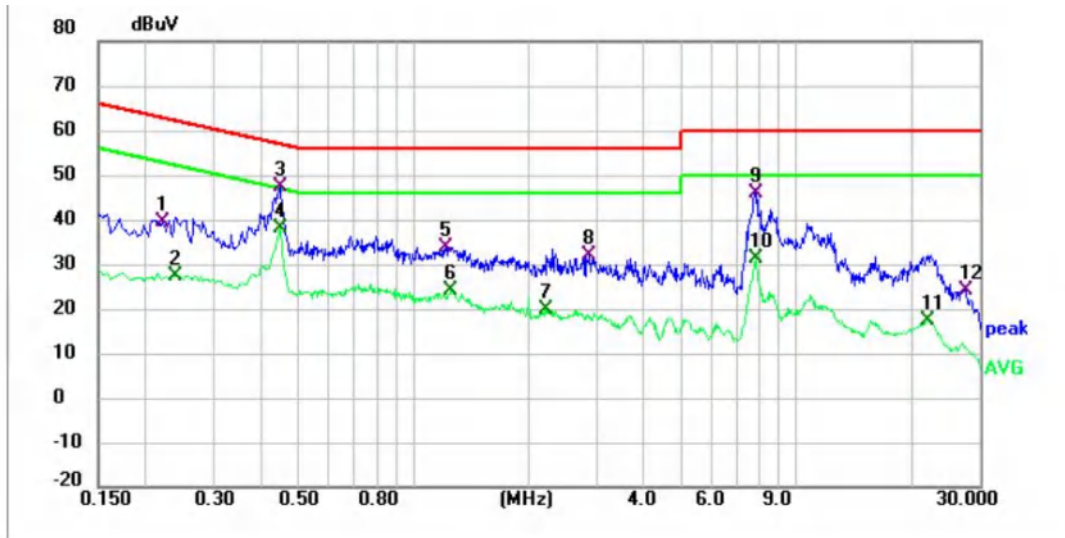
6.2.1.4. Test Data

Mode6 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	36.76	10.20	46.96	65.79	18.83	QP
2	0.2140	18.79	10.17	28.96	53.05	24.09	AVG
3	0.4420	37.86	10.15	48.01	57.02	9.01	QP
4 *	0.4460	29.02	10.15	39.17	46.95	7.78	AVG
5	0.8100	26.32	10.19	36.51	56.00	19.49	QP
6	0.8820	15.36	10.19	25.55	46.00	20.45	AVG
7	3.1060	10.85	10.31	21.16	46.00	24.84	AVG
8	3.1660	21.69	10.31	32.00	56.00	24.00	QP
9	7.7980	22.63	10.35	32.98	50.00	17.02	AVG
10	7.8300	37.83	10.35	48.18	60.00	11.82	QP
11	15.6900	8.96	10.55	19.51	50.00	30.49	AVG
12	22.2540	20.18	10.99	31.17	60.00	28.83	QP

Mode6 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2220	29.38	10.14	39.52	62.74	23.22	QP
2	0.2380	17.21	10.14	27.35	52.17	24.82	AVG
3	0.4460	37.14	10.13	47.27	56.95	9.68	QP
4 *	0.4460	27.89	10.13	38.02	46.95	8.93	AVG
5	1.2100	23.65	10.17	33.82	56.00	22.18	QP
6	1.2540	13.86	10.18	24.04	46.00	21.96	AVG
7	2.2260	9.74	10.24	19.98	46.00	26.02	AVG
8	2.8699	21.77	10.28	32.05	56.00	23.95	QP
9	7.8300	35.49	10.36	45.85	60.00	14.15	QP
10	7.8300	20.88	10.36	31.24	50.00	18.76	AVG
11	22.0380	6.41	10.97	17.38	50.00	32.62	AVG
12	27.6940	13.15	10.88	24.03	60.00	35.97	QP

Note:

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

2>. Margin = Limit - Level

6.2.2. 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: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) 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.

6.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.4 °C	Humidity:	56.2 %	Atmospheric Pressure:	102.7 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

6.2.2.2. Test Setup Diagram



6.2.2.3. Test Result

Pass

6.2.2.4. Test Data

Please Refer to Appendix for Details.

6.2.3. 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

6.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	23 °C	Humidity:	55.7 %	Atmospheric Pressure:	102.7 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

6.2.3.2. Test Setup Diagram



6.2.3.3. Test Result

Pass

6.2.3.4. Test Data

Please Refer to Appendix for Details.

6.2.4. 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

6.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.3 °C	Humidity:	55.5 %	Atmospheric Pressure:	102.7 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

6.2.4.2. Test Setup Diagram



6.2.4.3. Test Result

Pass

6.2.4.4. Test Data

Please Refer to Appendix for Details.

6.2.5. 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

6.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.2 °C	Humidity:	56.3 %	Atmospheric Pressure:	102.7 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

6.2.5.2. Test Setup Diagram



6.2.5.3. Test Result

Pass

6.2.5.4. Test Data

Please Refer to Appendix for Details.

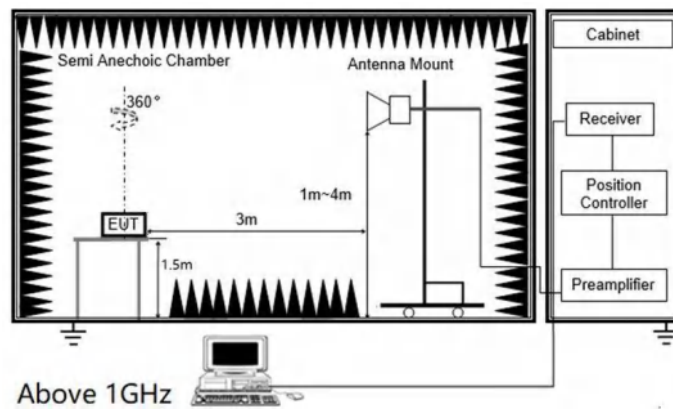
6.2.6. Radiated band edge emission

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		

6.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.3 °C	Humidity:	56.3 %	Atmospheric Pressure:	102.3 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 (TM4) is recorded in the report				

6.2.6.2. Test Setup Diagram



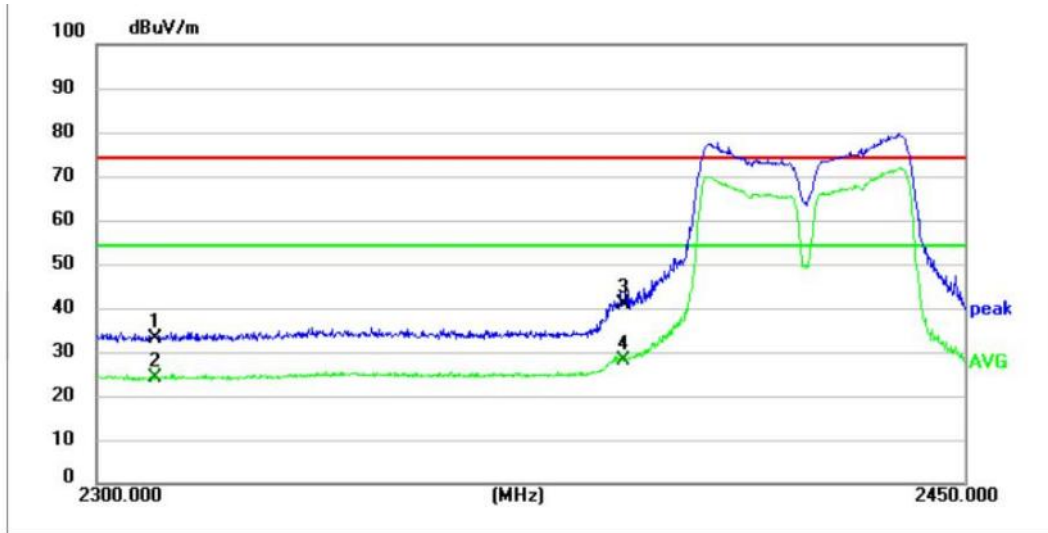
6.2.6.3. Test Result

Pass

6.2.6.4. Test Data

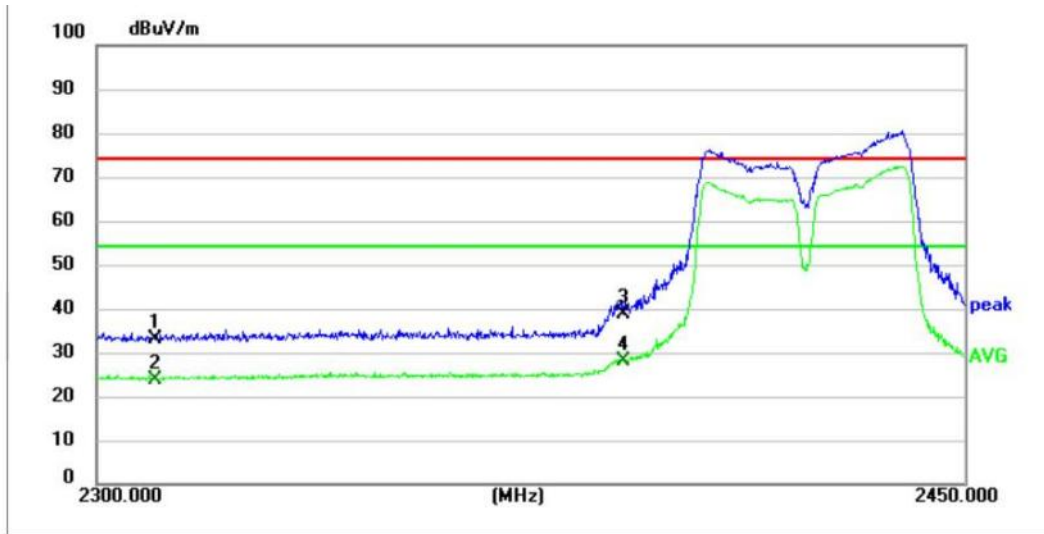
Ant1:

Mode4 / Polarization: Horizontal / CH: L



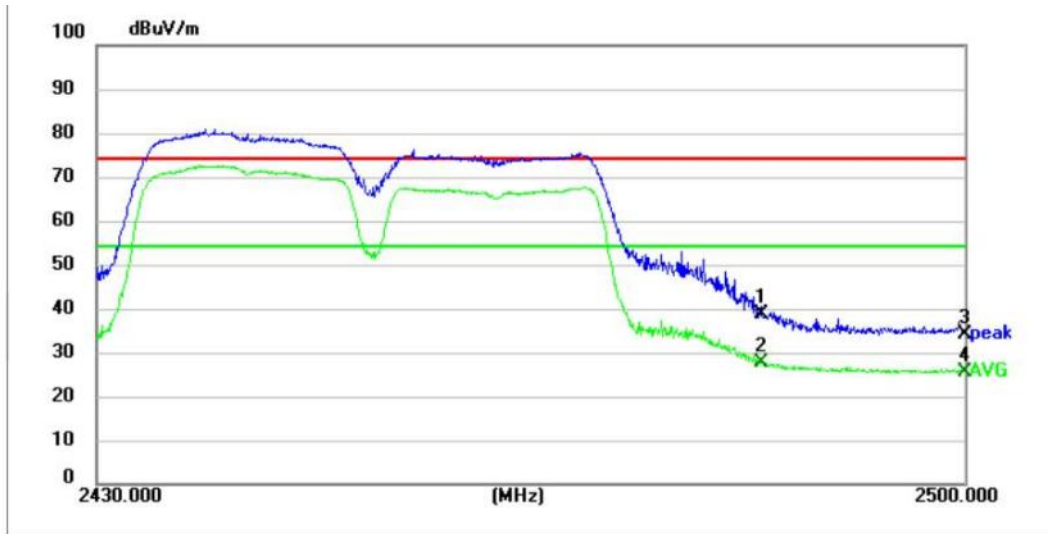
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	50.40	-17.52	32.88	74.00	41.12	peak
2	2310.0000	41.57	-17.52	24.05	54.00	29.95	AVG
3	2390.0000	58.08	-17.32	40.76	74.00	33.24	peak
4 *	2390.0000	45.33	-17.32	28.01	54.00	25.99	AVG

Mode4 / Polarization: Vertical / CH: L



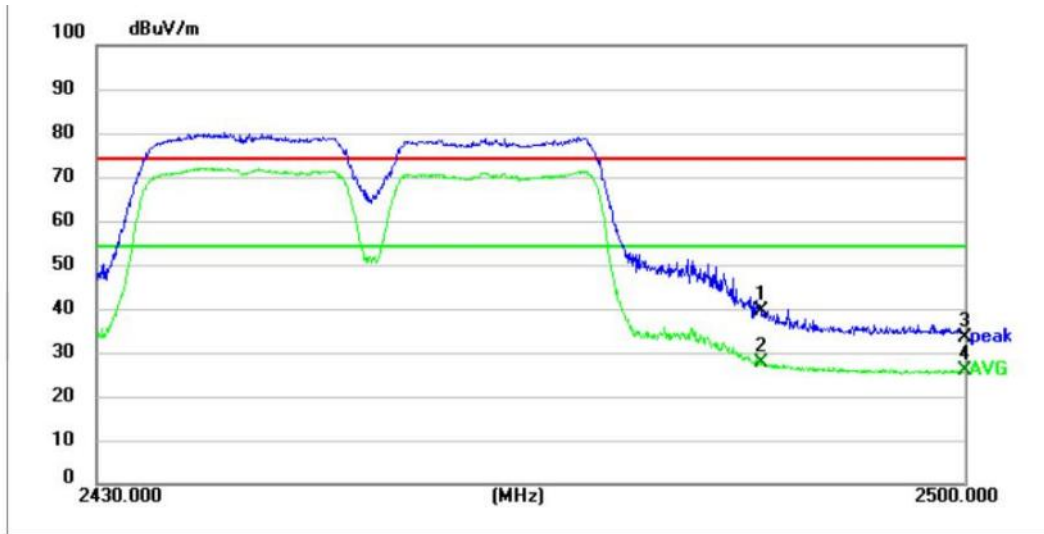
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	50.43	-17.52	32.91	74.00	41.09	peak
2	2310.0000	41.38	-17.52	23.86	54.00	30.14	AVG
3	2390.0000	55.90	-17.32	38.58	74.00	35.42	peak
4 *	2390.0000	45.24	-17.32	27.92	54.00	26.08	AVG

Mode4 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.75	-17.03	38.72	74.00	35.28	peak
2 *	2483.5000	44.82	-17.03	27.79	54.00	26.21	AVG
3	2500.0000	51.21	-16.94	34.27	74.00	39.73	peak
4	2500.0000	42.56	-16.94	25.62	54.00	28.38	AVG

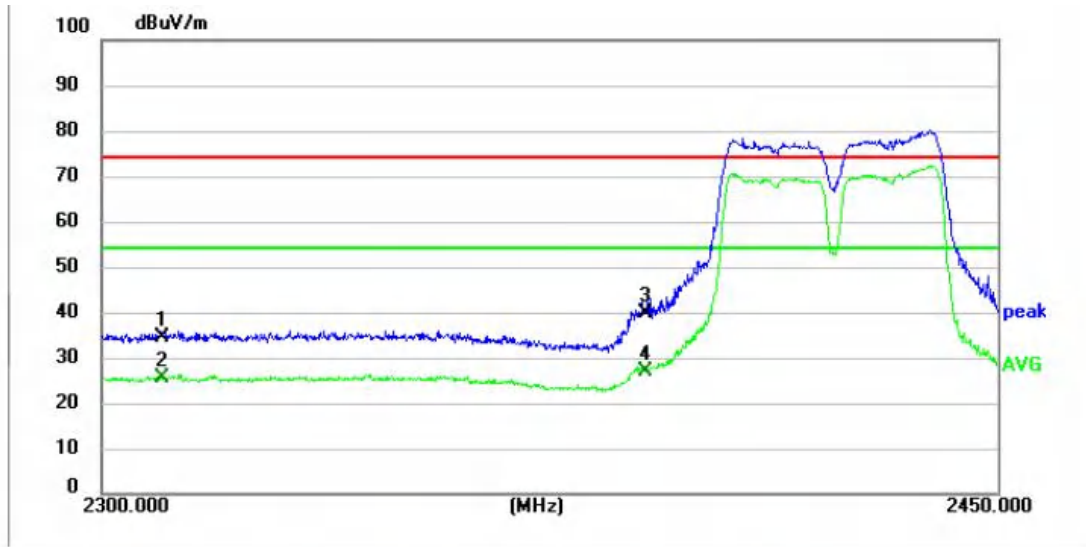
Mode4 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	56.38	-17.03	39.35	74.00	34.65	peak
2 *	2483.5000	44.87	-17.03	27.84	54.00	26.16	AVG
3	2500.0000	50.49	-16.94	33.55	74.00	40.45	peak
4	2500.0000	42.67	-16.94	25.73	54.00	28.27	AVG

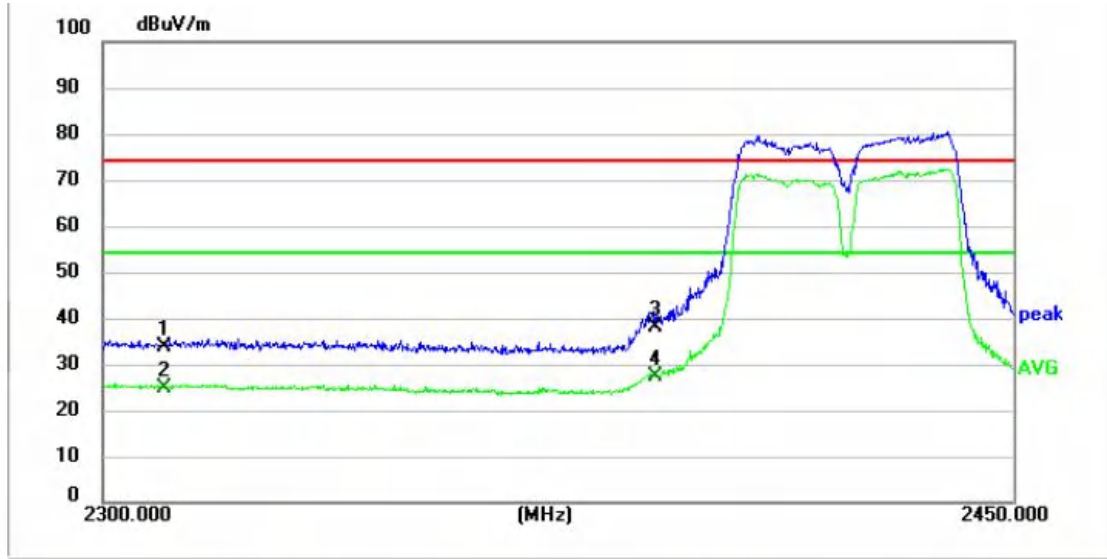
Ant2:

Mode4 / Polarization: Horizontal / CH: L



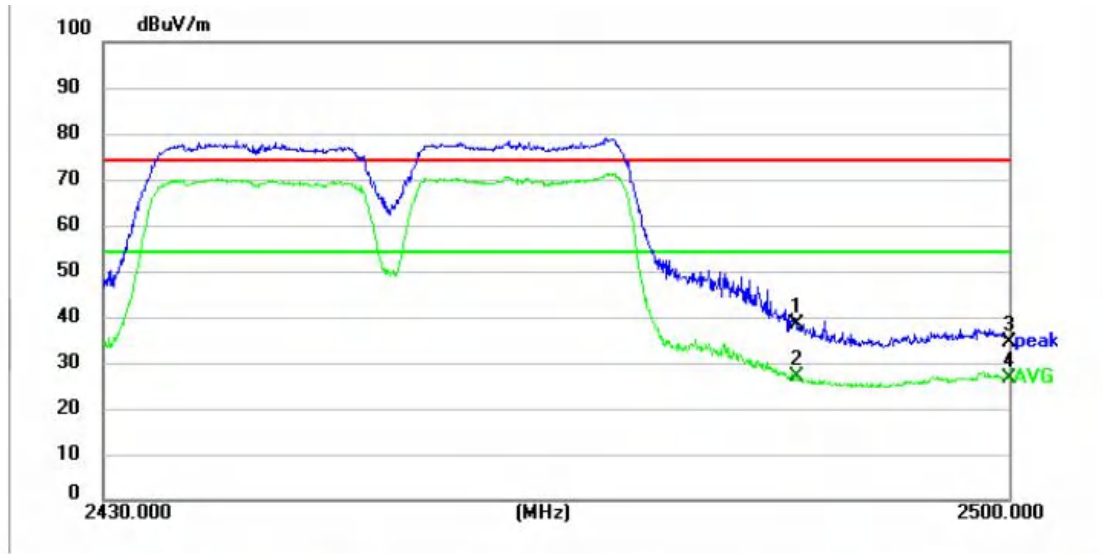
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.90	-17.52	34.38	74.00	39.62	peak
2	2310.0000	43.07	-17.52	25.55	54.00	28.45	AVG
3	2390.0000	57.08	-17.32	39.76	74.00	34.24	peak
4 *	2390.0000	44.33	-17.32	27.01	54.00	26.99	AVG

Mode4 / Polarization: Vertical / CH: L



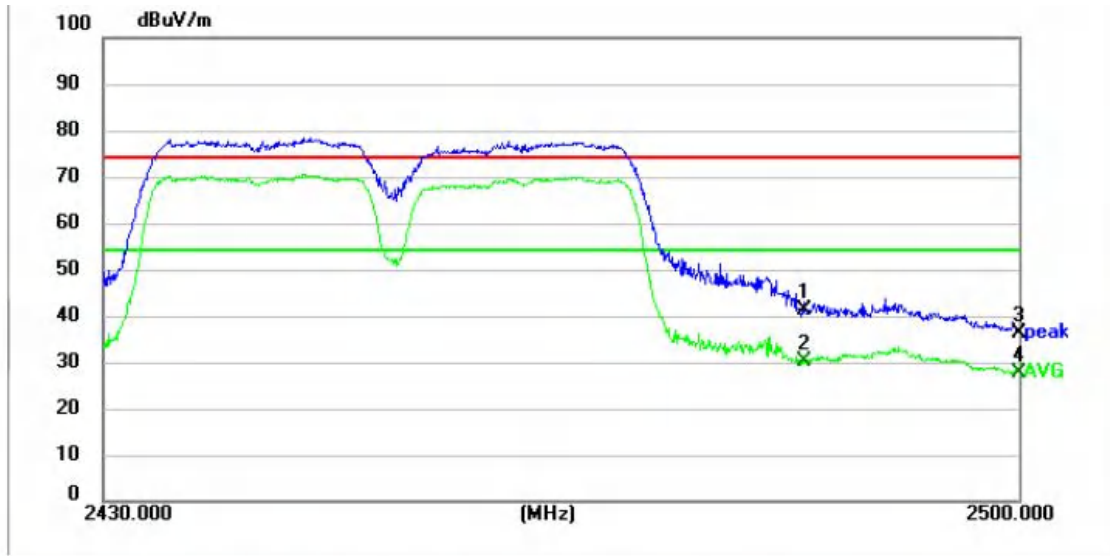
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.0000	51.43	-17.52	33.91	74.00	40.09	peak
2	2310.0000	42.38	-17.52	24.86	54.00	29.14	AVG
3	2390.0000	55.40	-17.32	38.08	74.00	35.92	peak
4 *	2390.0000	44.74	-17.32	27.42	54.00	26.58	AVG

Mode4 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	55.38	-17.03	38.35	74.00	35.65	peak
2 *	2483.5000	43.87	-17.03	26.84	54.00	27.16	AVG
3	2500.0000	51.49	-16.94	34.55	74.00	39.45	peak
4	2500.0000	43.67	-16.94	26.73	54.00	27.27	AVG

Mode4 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	58.25	-17.03	41.22	74.00	32.78	peak
2 *	2483.5000	47.32	-17.03	30.29	54.00	23.71	AVG
3	2500.0000	53.21	-16.94	36.27	74.00	37.73	peak
4	2500.0000	44.56	-16.94	27.62	54.00	26.38	AVG

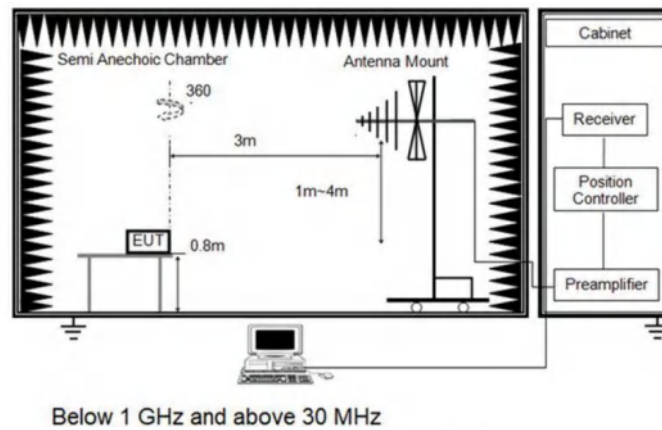
6.2.7. Radiated Spurious Emission (below 1GHz)

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.		

6.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.3 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM4) is recorded in the report				

6.2.7.2. Test Setup Diagram



6.2.7.3. Test Result

Pass

6.2.7.4. Test Data

Mode4 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.9940	44.45	-29.21	15.24	40.00	24.76	QP
2	110.1816	59.48	-30.51	28.97	43.50	14.53	QP
3	190.4050	61.60	-30.71	30.89	43.50	12.61	QP
4 *	372.0045	65.86	-25.48	40.38	46.00	5.62	QP
5	709.1821	51.30	-16.92	34.38	46.00	11.62	QP
6	893.8566	50.19	-14.89	35.30	46.00	10.70	QP

Mode4 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.5095	53.55	-32.07	21.48	40.00	18.52	QP
2	56.0007	53.89	-30.37	23.52	40.00	16.48	QP
3 *	107.1337	65.86	-30.67	35.19	43.50	8.31	QP
4	214.5142	60.39	-29.66	30.73	43.50	12.77	QP
5	368.1116	63.15	-25.51	37.64	46.00	8.36	QP
6	687.1506	53.02	-17.07	35.95	46.00	10.05	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

4>. During the above-mentioned mode test, the device was operated in MIMO mode.

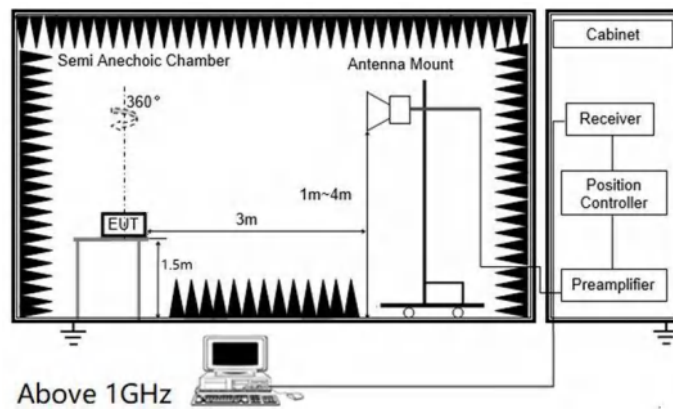
6.2.8. Radiated Spurious Emission (Above 1GHz)

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		

6.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.8 °C	Humidity:	56.8 %	Atmospheric Pressure:	102.3 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (TM4) is recorded in the report				

6.2.8.2. Test Setup Diagram

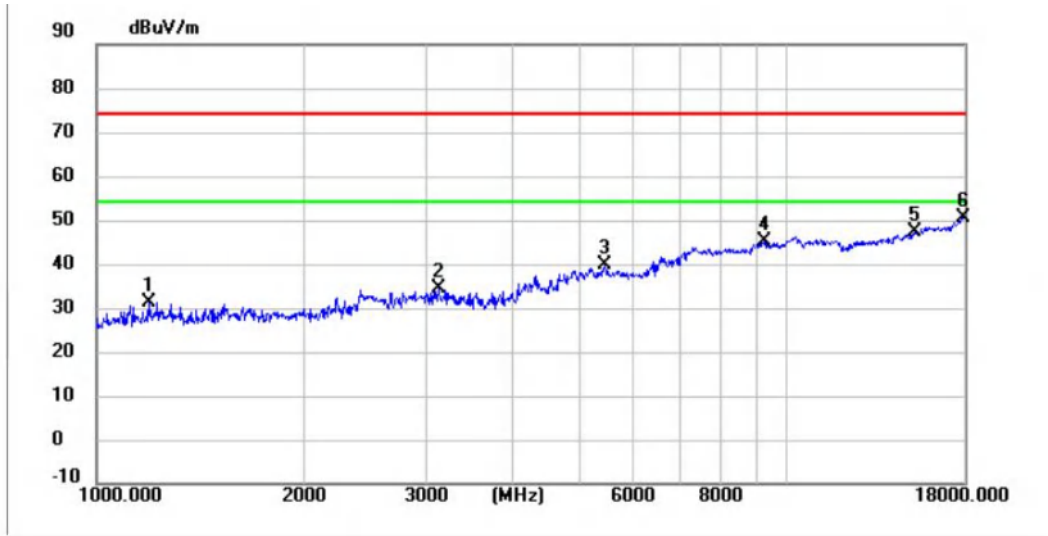


6.2.8.3. Test Result

Pass

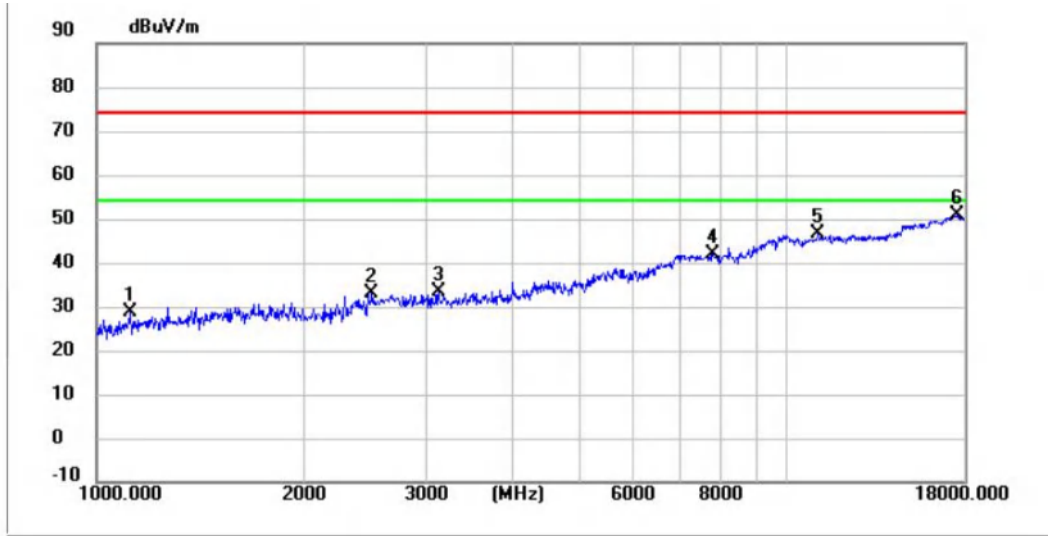
6.2.8.4. Test Data

Mode4 / Polarization: Horizontal / CH: L



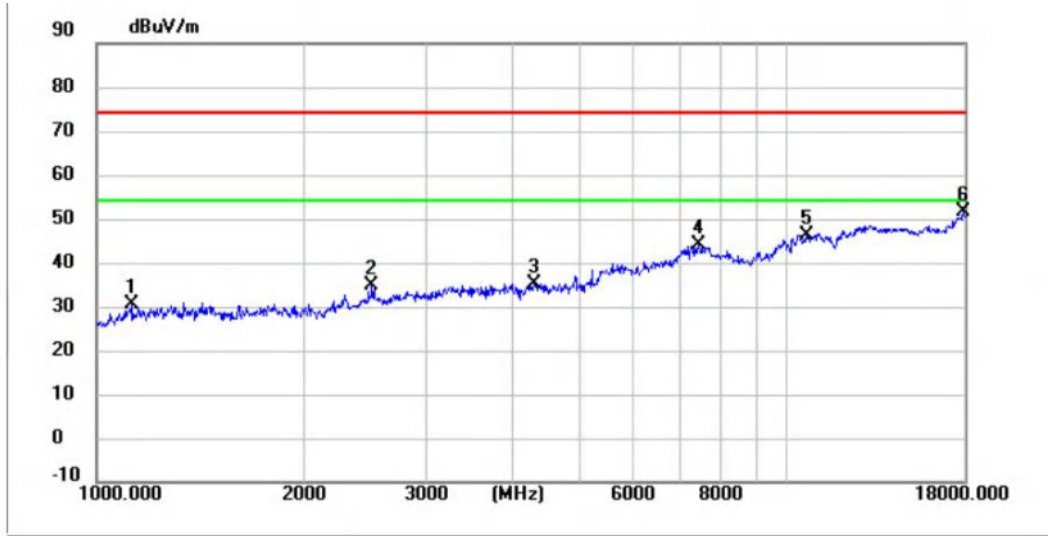
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1190.4000	52.89	-21.49	31.40	74.00	42.60	peak
2	3125.0000	48.84	-14.33	34.51	74.00	39.49	peak
3	5428.5000	46.55	-6.78	39.77	74.00	34.23	peak
4	9241.6000	35.92	9.11	45.03	74.00	28.97	peak
5	15308.9000	29.70	17.60	47.30	74.00	26.70	peak
6 *	17969.4000	26.51	23.91	50.42	74.00	23.58	peak

Mode4 / Polarization: Vertical / CH: L



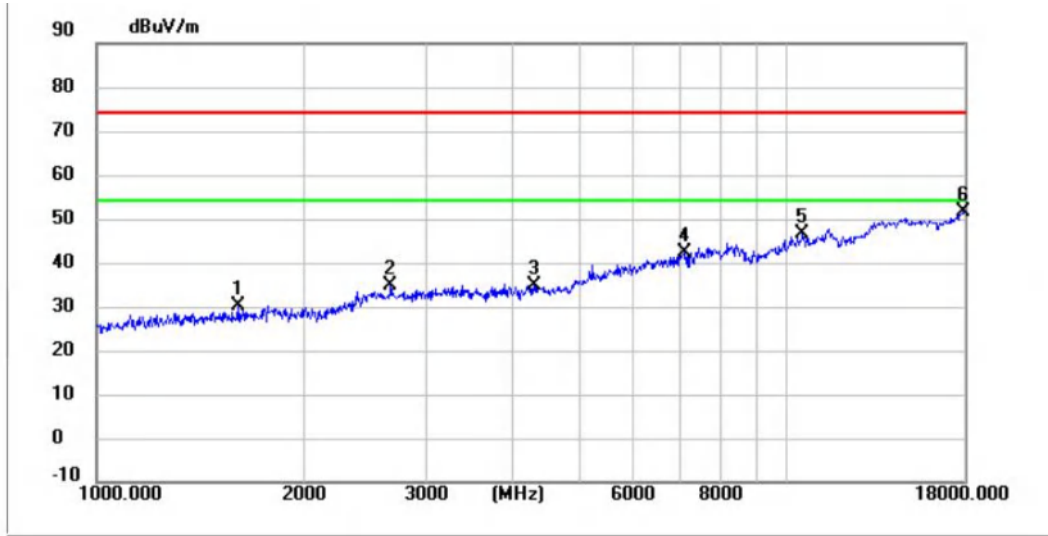
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1119.0000	50.45	-21.70	28.75	74.00	45.25	peak
2	2504.5000	50.06	-16.90	33.16	74.00	40.84	peak
3	3125.0000	47.72	-14.33	33.39	74.00	40.61	peak
4	7808.5000	36.33	5.72	42.05	74.00	31.95	peak
5	11081.0000	33.06	13.45	46.51	74.00	27.49	peak
6 *	17556.3000	30.15	20.69	50.84	74.00	23.16	peak

Mode4 / Polarization: Horizontal / CH: M



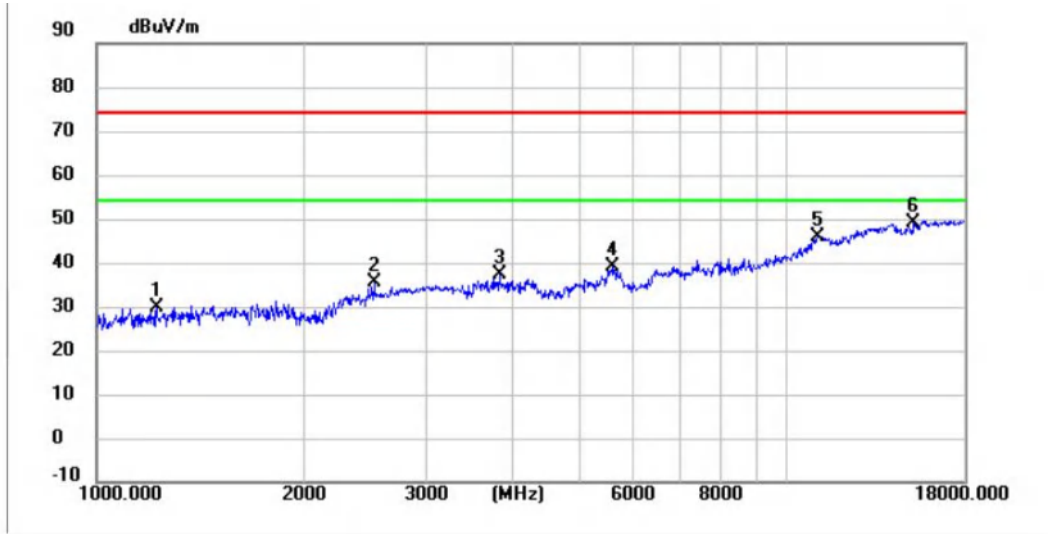
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1124.1000	52.08	-21.70	30.38	74.00	43.62	peak
2	2504.5000	51.81	-16.90	34.91	74.00	39.09	peak
3	4292.9000	47.05	-11.70	35.35	74.00	38.65	peak
4	7439.6000	38.91	5.06	43.97	74.00	30.03	peak
5	10678.1000	33.95	12.39	46.34	74.00	27.66	peak
6 *	17974.5000	27.70	23.94	51.64	74.00	22.36	peak

Mode4 / Polarization: Vertical / CH: M



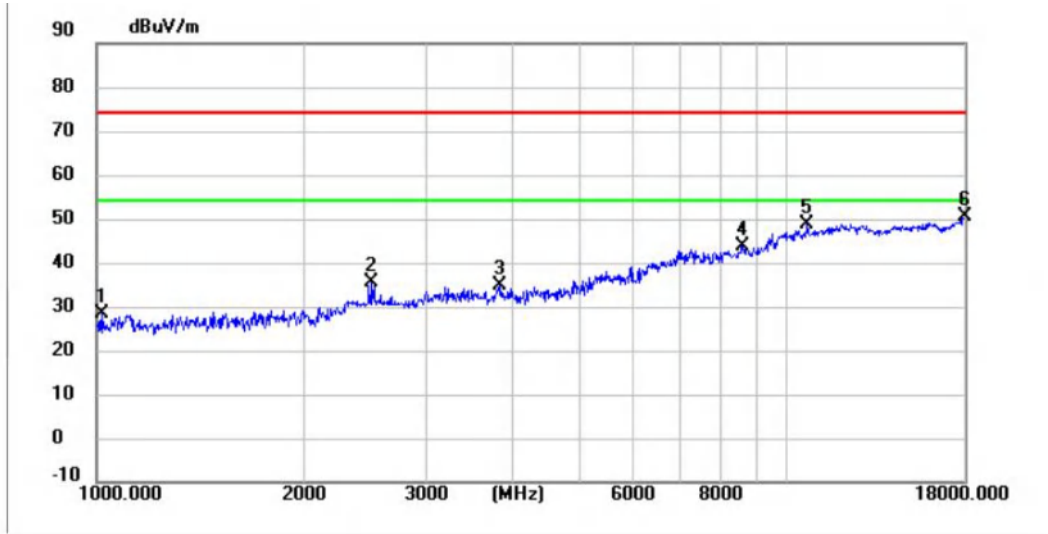
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1605.2000	50.66	-20.45	30.21	74.00	43.79	peak
2	2671.1000	50.65	-15.86	34.79	74.00	39.21	peak
3	4292.9000	46.55	-11.70	34.85	74.00	39.15	peak
4	7087.7000	38.50	3.99	42.49	74.00	31.51	peak
5	10518.3000	34.44	12.01	46.45	74.00	27.55	peak
6 *	17981.3000	27.66	24.00	51.66	74.00	22.34	peak

Mode4 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1221.0000	51.16	-21.42	29.74	74.00	44.26	peak
2	2528.3000	52.19	-16.72	35.47	74.00	38.53	peak
3	3823.7000	50.19	-12.80	37.39	74.00	36.61	peak
4	5595.1000	45.85	-6.65	39.20	74.00	34.80	peak
5	11096.3000	32.47	13.46	45.93	74.00	28.07	peak
6 *	15239.2000	31.36	17.65	49.01	74.00	24.99	peak

Mode4 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1018.7000	50.53	-22.07	28.46	74.00	45.54	peak
2	2504.5000	52.45	-16.90	35.55	74.00	38.45	peak
3	3844.1000	47.49	-12.72	34.77	74.00	39.23	peak
4	8627.9000	36.40	7.51	43.91	74.00	30.09	peak
5	10678.1000	36.45	12.39	48.84	74.00	25.16	peak
6 *	18000.0000	26.43	24.13	50.56	74.00	23.44	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.

4>. During the above-mentioned mode test, the device was operated in MIMO mode.

7. APPENDIX REPORT

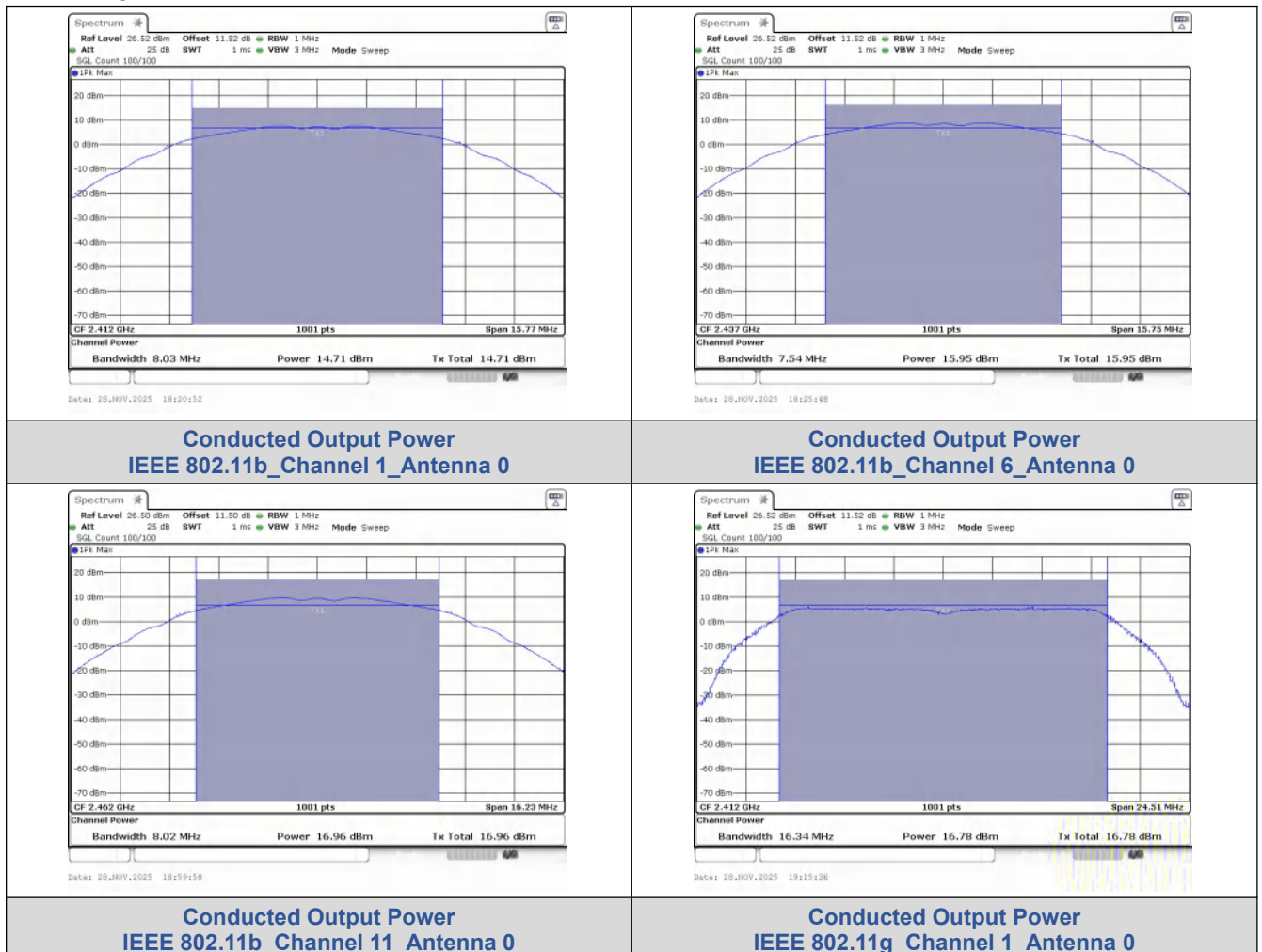
7.1. Conducted Peak Output Power

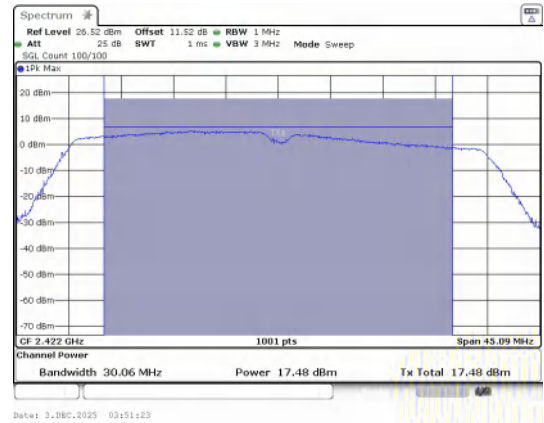
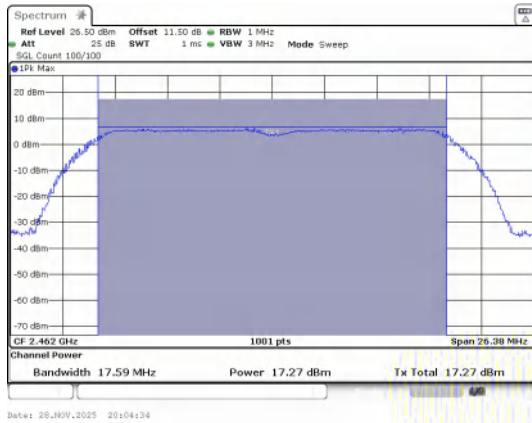
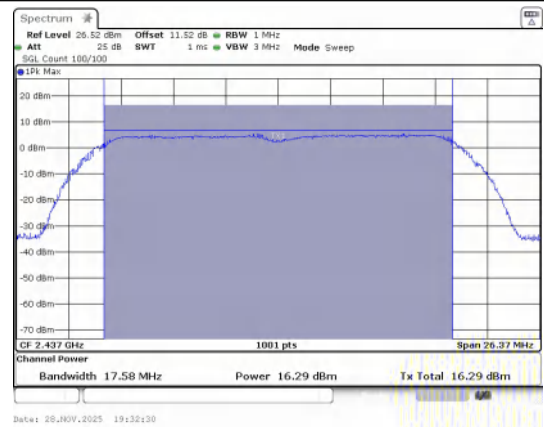
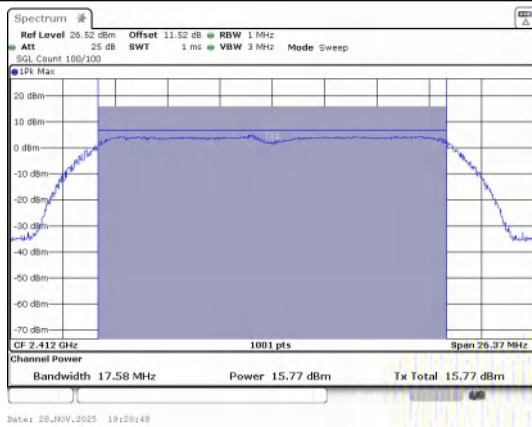
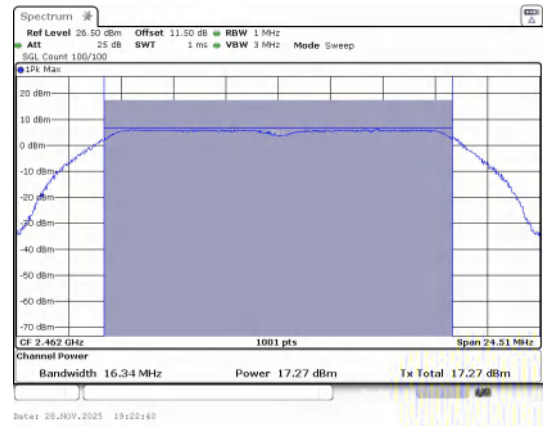
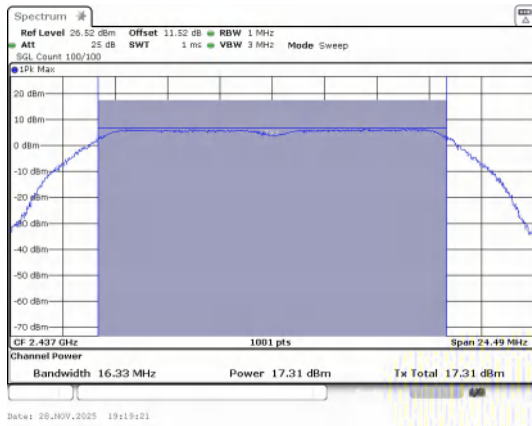
Test Result

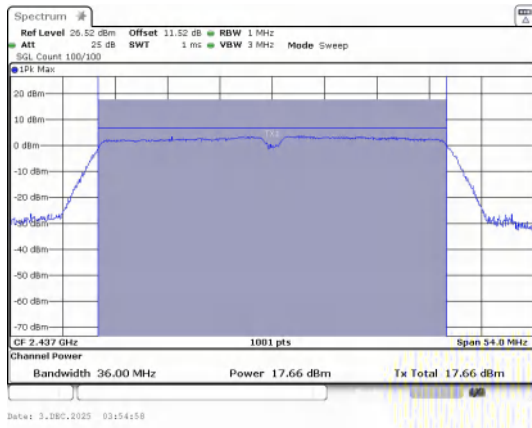
Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	14.71	15.30	-	≤30	PASS
	6	15.95	15.91	-	≤30	PASS
	11	16.96	16.48	-	≤30	PASS
IEEE 802.11g	1	16.78	15.93	-	≤30	PASS
	6	17.31	16.41	-	≤30	PASS
	11	17.27	16.82	-	≤30	PASS
IEEE 802.11n_20	1	15.77	15.87	18.83	≤30	PASS
	6	16.29	16.32	19.32	≤30	PASS
	11	17.27	17.29	20.29	≤30	PASS
IEEE 802.11n_40	3	17.48	18.56	21.06	≤30	PASS
	6	17.66	17.72	20.70	≤30	PASS
	9	17.71	17.68	20.71	≤30	PASS

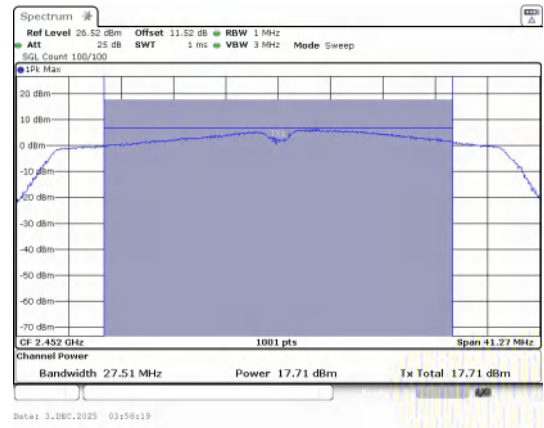
Test Graphs





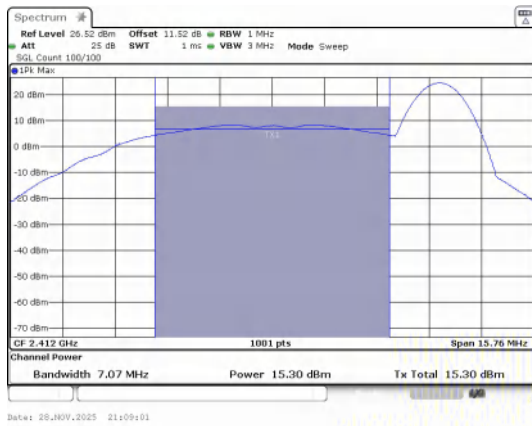


**Conducted Output Power
IEEE 802.11n_Channel 6_Antenna 0**

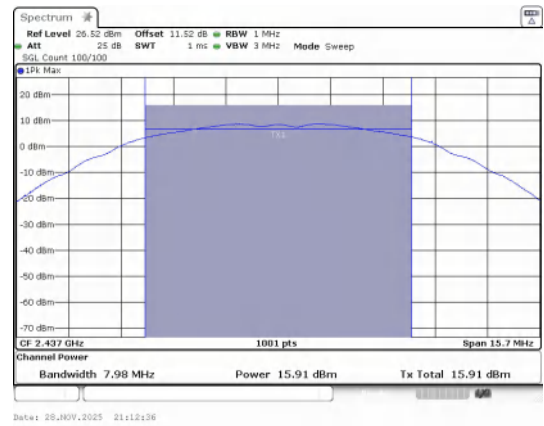


**Conducted Output Power
IEEE 802.11n_Channel 9_Antenna 0**

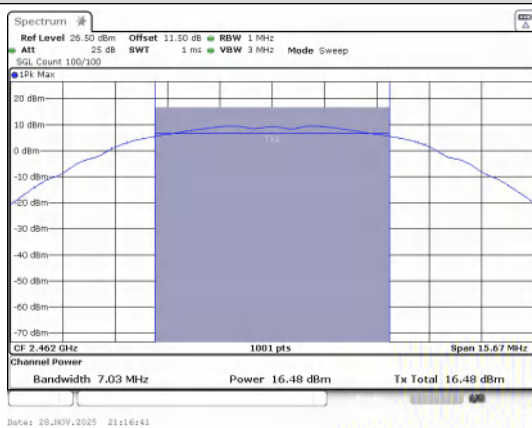
**Ant1:
Test Graphs**



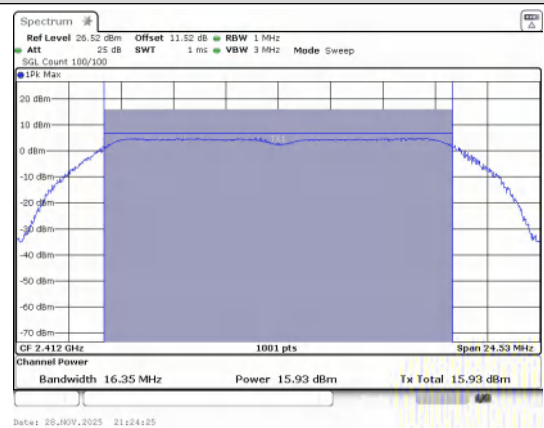
**Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 1**



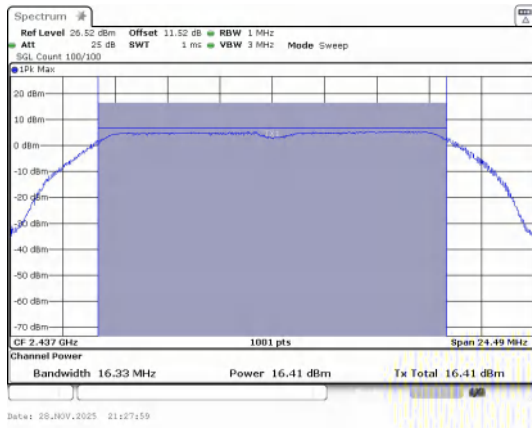
**Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 1**



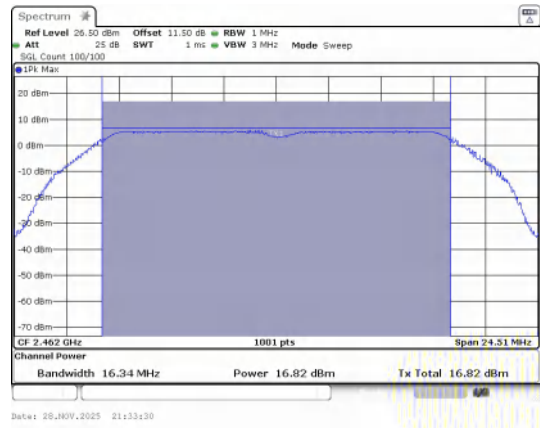
**Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 1**



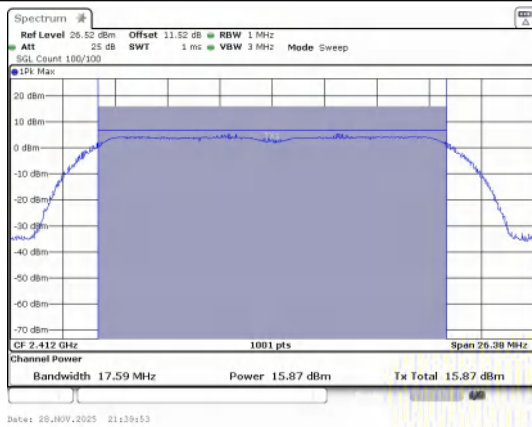
**Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 1**



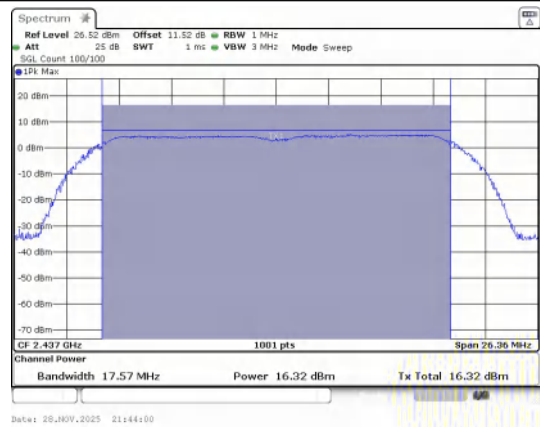
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 1**



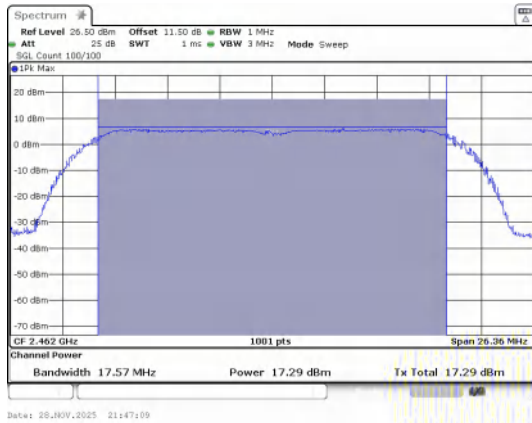
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 1**



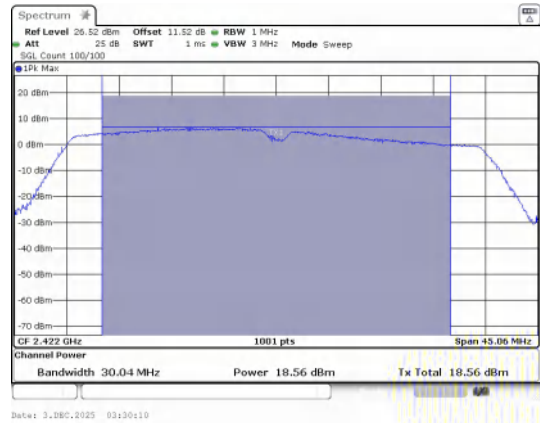
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 1**



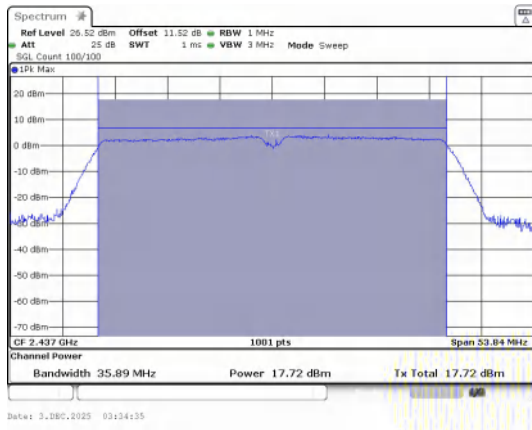
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 1**



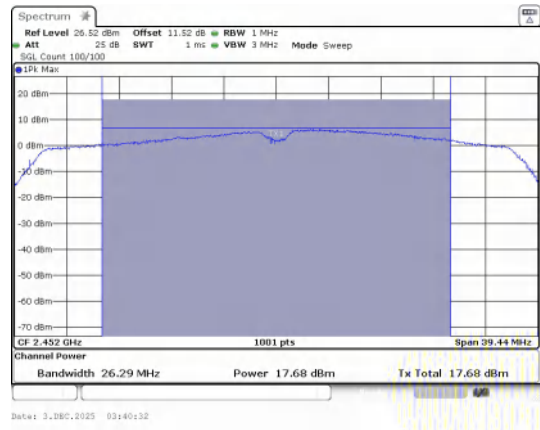
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 1**



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



Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 1



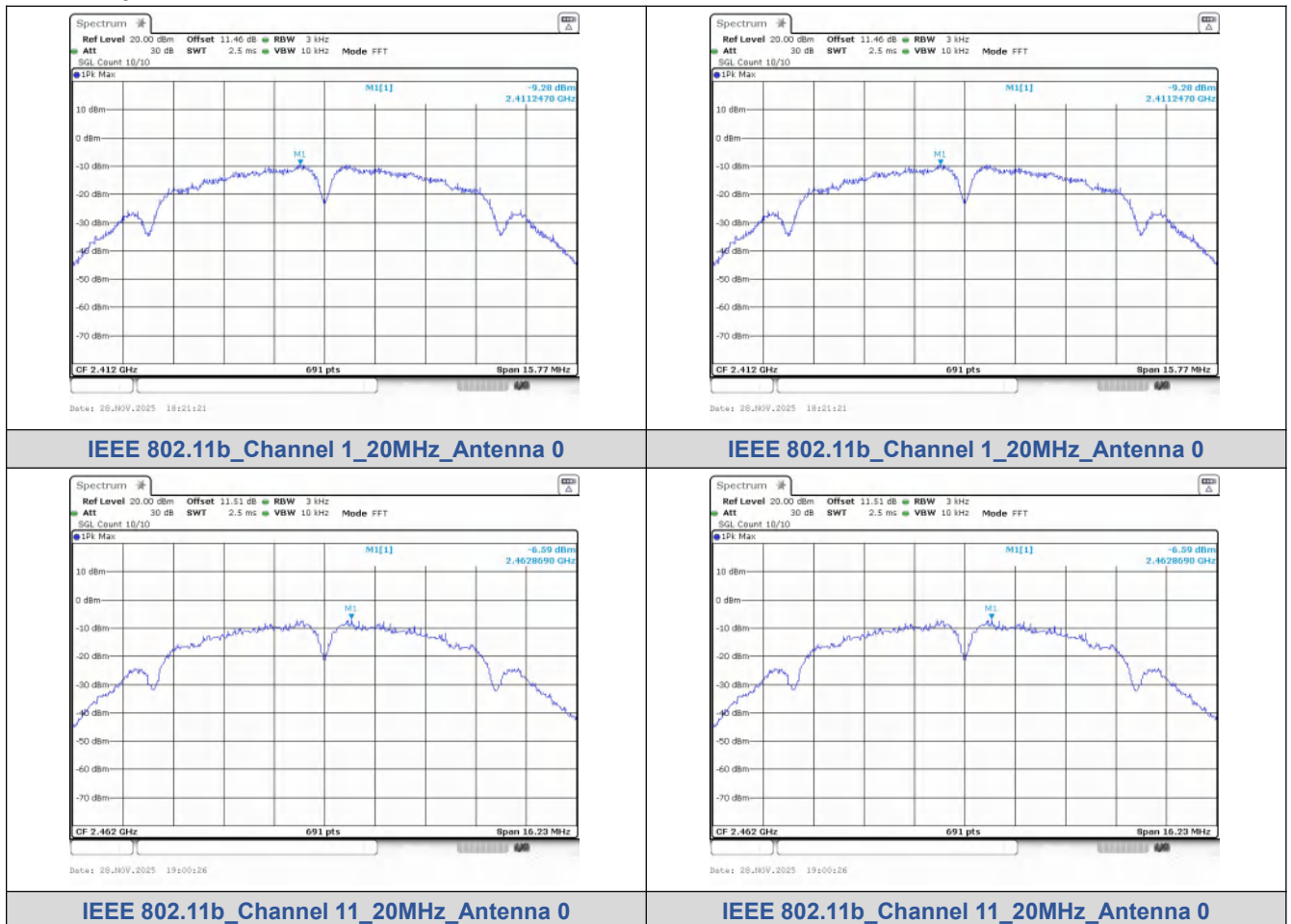
Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 1

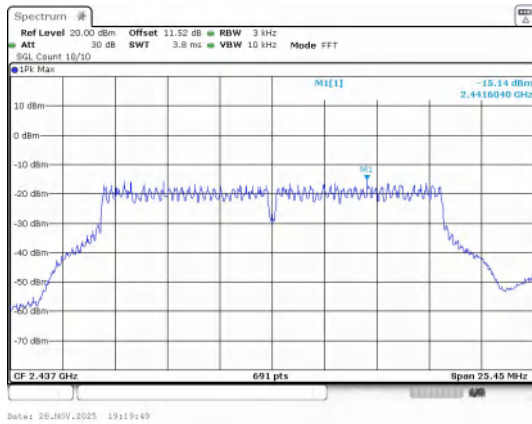
7.2. Power Spectral Density

Test Result

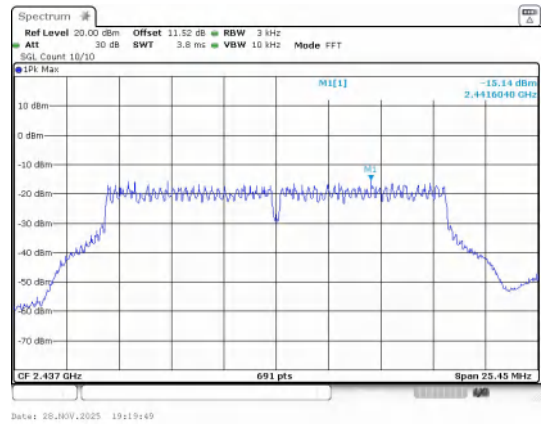
Mode	Channel	PSD (dBm/3kHz) Ant. 0	PSD (dBm/3kHz) Ant. 1	Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-9.280	-7.610	-	≤8	PASS
	6	-7.930	-6.370	-		PASS
	11	-6.590	-7.160	-		PASS
IEEE 802.11g	1	-15.890	-16.400	-		PASS
	6	-15.140	-15.840	-		PASS
	11	-15.320	-15.540	-		PASS
IEEE 802.11n_20	1	-16.900	-17.000	-13.939		PASS
	6	-16.230	-16.660	-13.429		PASS
	11	-15.510	-15.540	-12.515		PASS
IEEE 802.11n_40	3	-17.010	-15.480	-13.168		PASS
	6	-18.930	-19.200	-16.053		PASS
	9	-16.770	-16.580	-13.664		PASS

Test Graphs

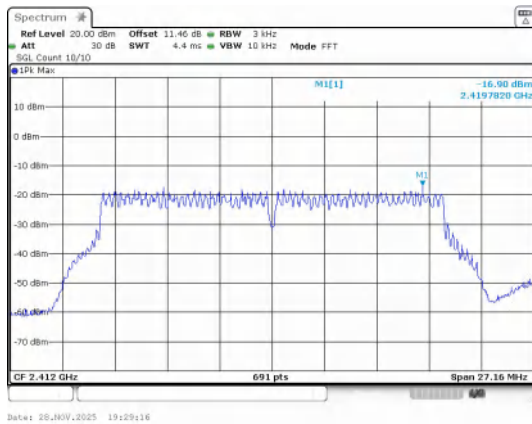




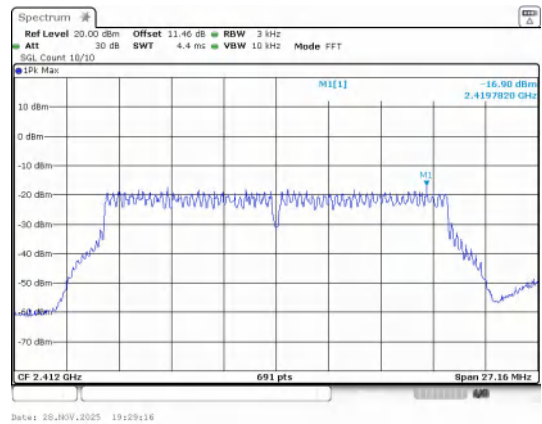
IEEE 802.11g_Channel 6_20MHz_Antenna 0



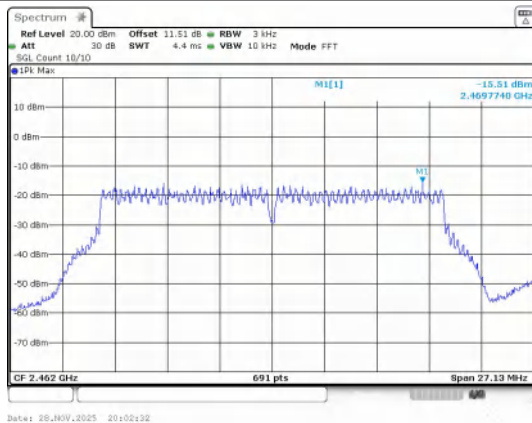
IEEE 802.11g_Channel 6_20MHz_Antenna 0



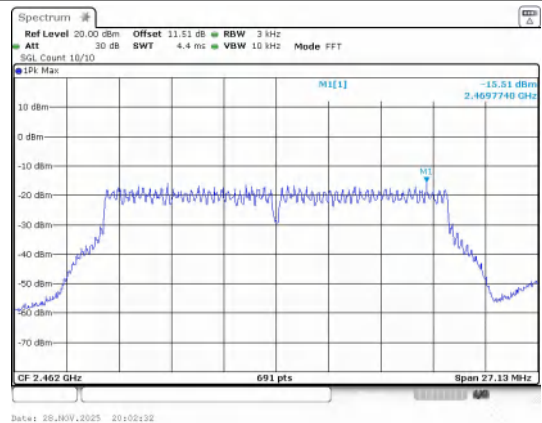
IEEE 802.11n_Channel 1_20MHz_Antenna 0



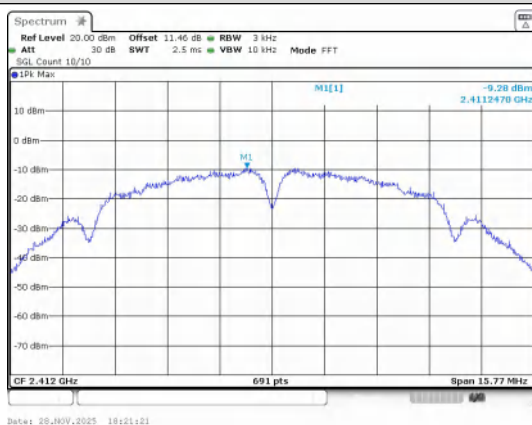
IEEE 802.11n_Channel 1_20MHz_Antenna 0



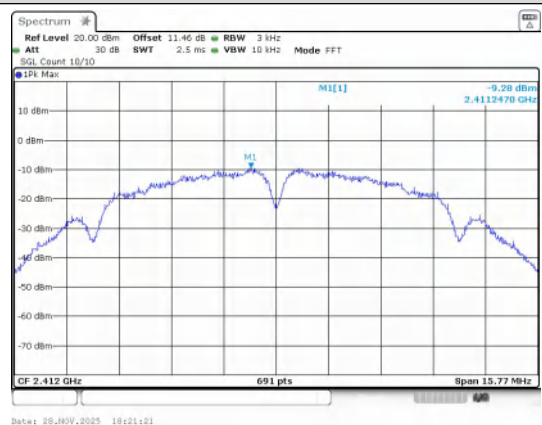
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

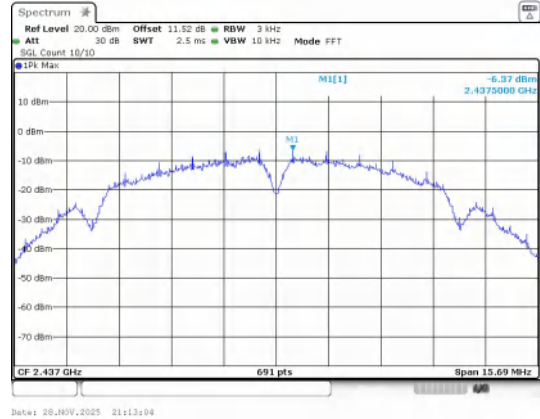
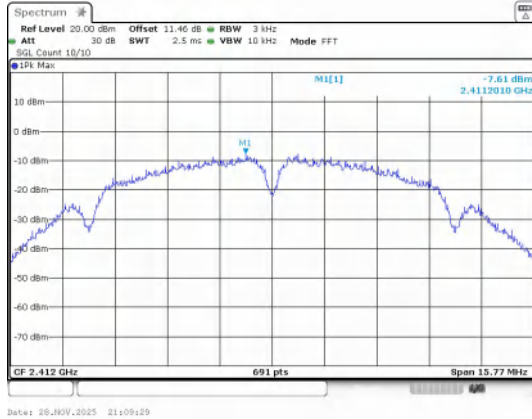


IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11b_Channel 1_20MHz_Antenna 0

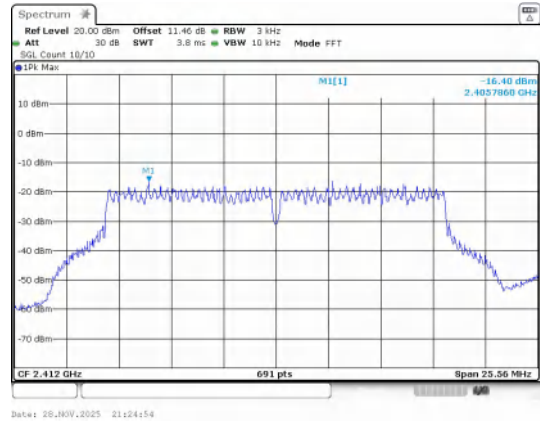
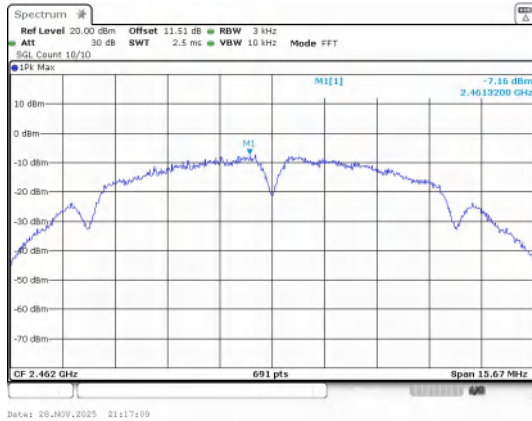
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Ant1:
Test Graphs



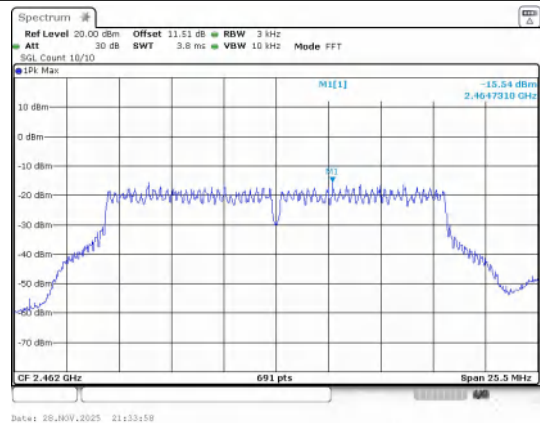
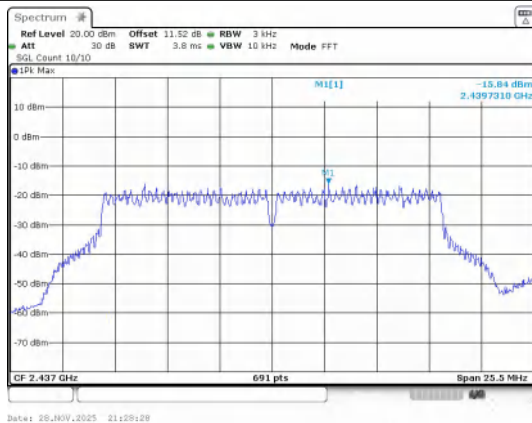
IEEE 802.11b_Channel 1_20MHz_Antenna 1

IEEE 802.11b_Channel 6_20MHz_Antenna 1



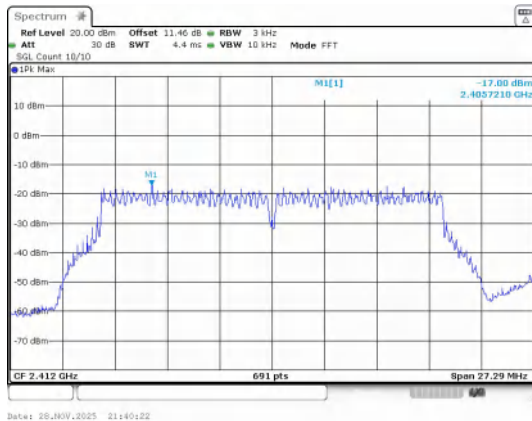
IEEE 802.11b_Channel 11_20MHz_Antenna 1

IEEE 802.11g_Channel 1_20MHz_Antenna 1

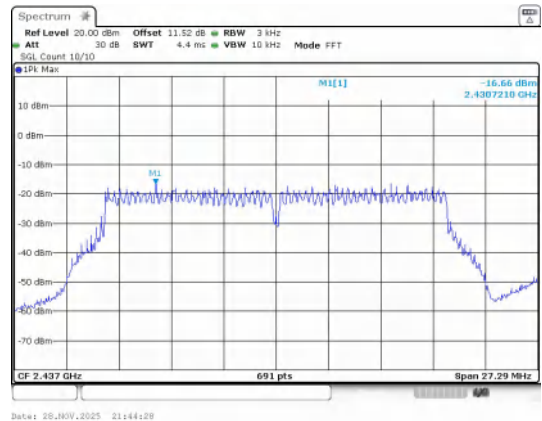


IEEE 802.11g_Channel 6_20MHz_Antenna 1

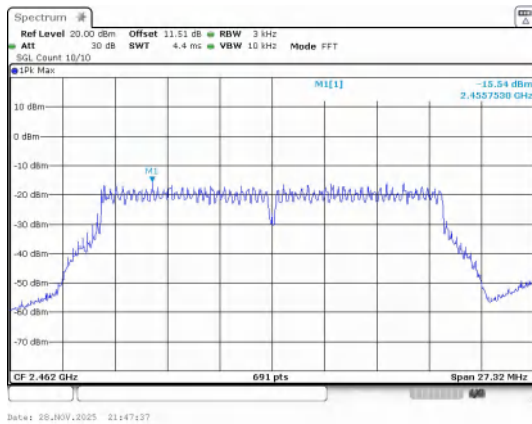
IEEE 802.11g_Channel 11_20MHz_Antenna 1



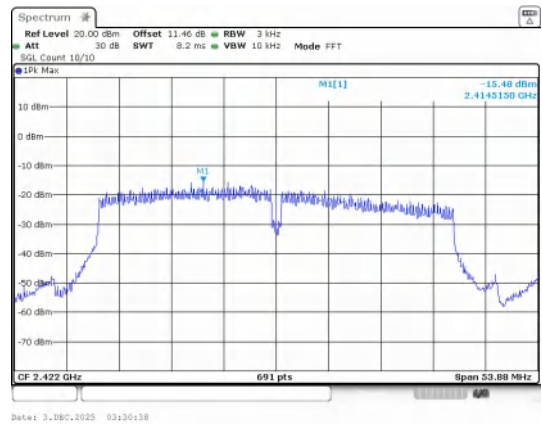
IEEE 802.11n_Channel 1_20MHz_Antenna 1



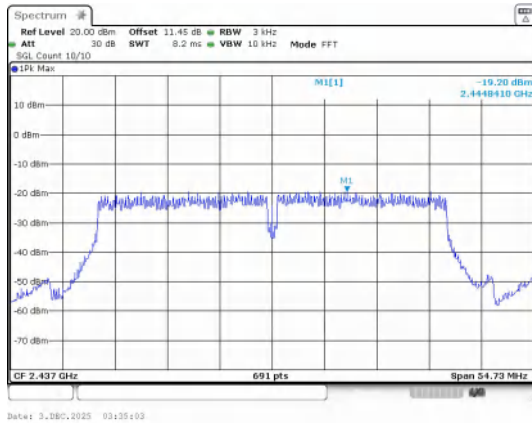
IEEE 802.11n_Channel 6_20MHz_Antenna 1



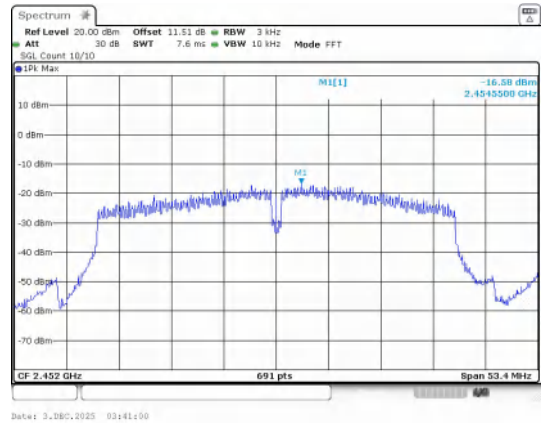
IEEE 802.11n_Channel 11_20MHz_Antenna 1



IEEE 802.11n_Channel 3_40MHz_Antenna 1



IEEE 802.11n_Channel 6_40MHz_Antenna 1



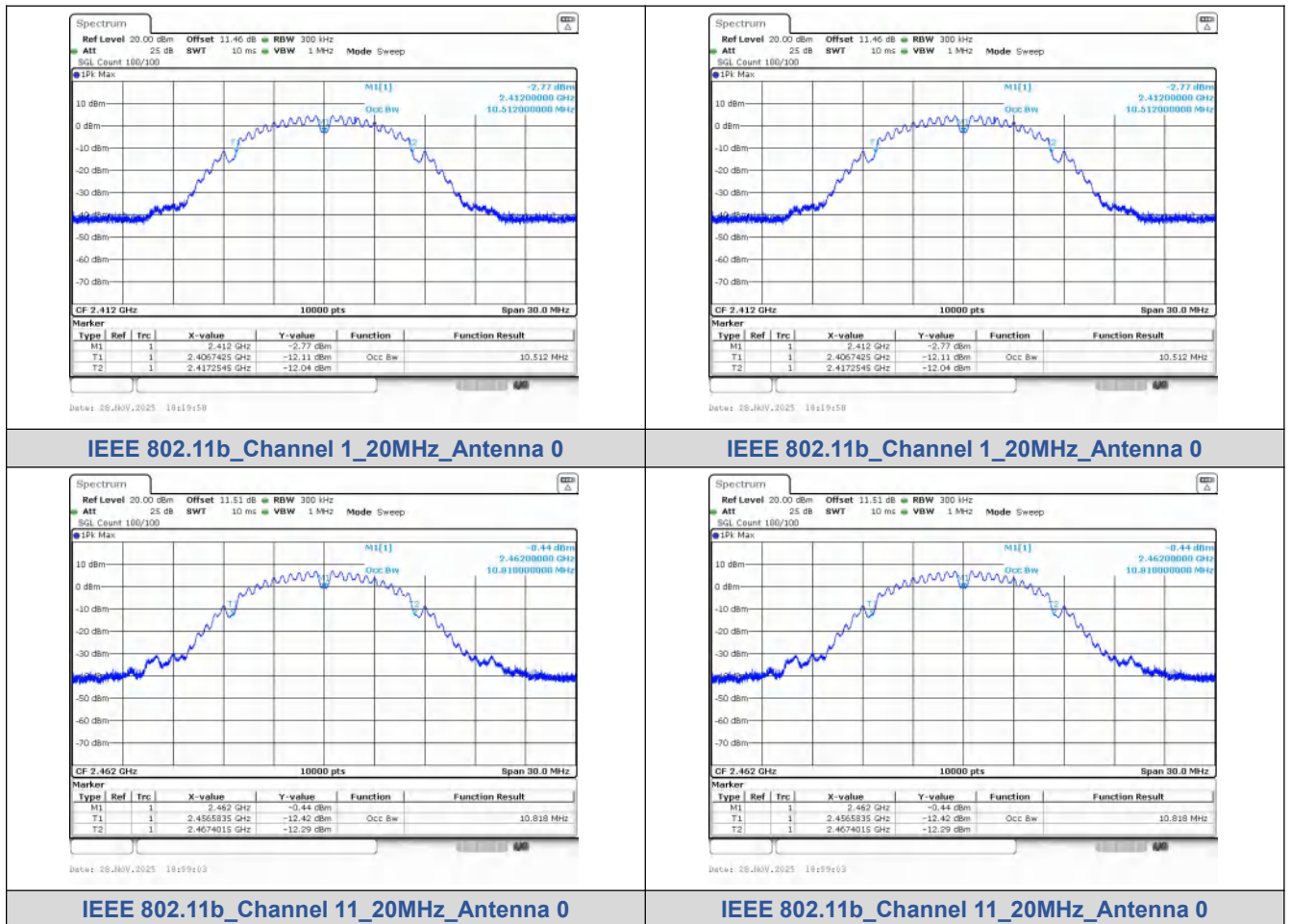
IEEE 802.11n_Channel 9_40MHz_Antenna 1

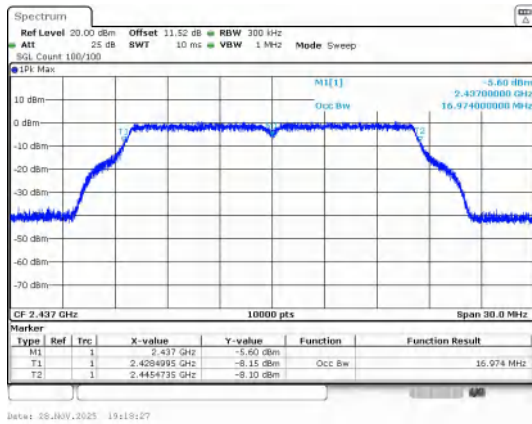
7.3. 99% Bandwidth

Test Result

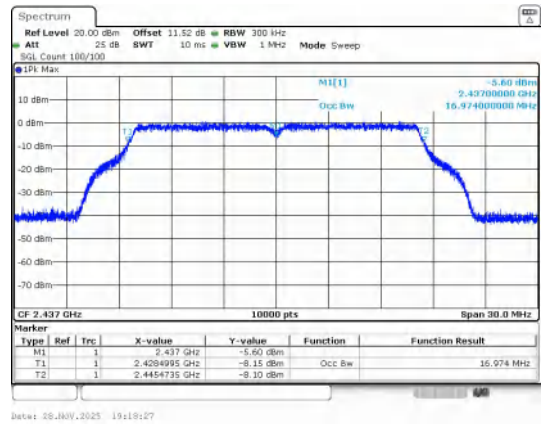
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	10.512	1	2412	10.506
	6		2437	10.500		2437	10.464
	11		2462	10.818		2462	10.446
IEEE 802.11g	1		2412	16.995		2412	17.037
	6		2437	16.974		2437	17.001
	11		2462	16.968		2462	17.001
IEEE 802.11n_20	1		2412	18.111		2412	18.186
	6		2437	18.105		2437	18.189
	11		2462	18.093		2462	18.210
IEEE 802.11n_40	3		2422	35.928		2422	35.916
	6		2437	36.492		2437	36.486
	9		2452	35.604		2452	35.598

Test Graphs

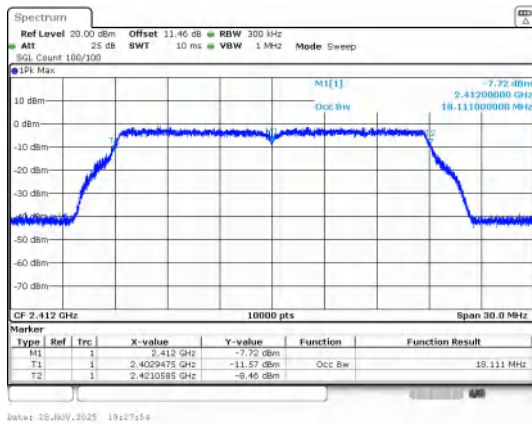




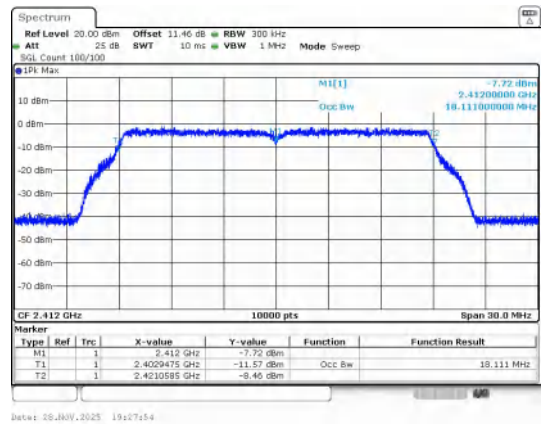
IEEE 802.11g_Channel 6_20MHz_Antenna 0



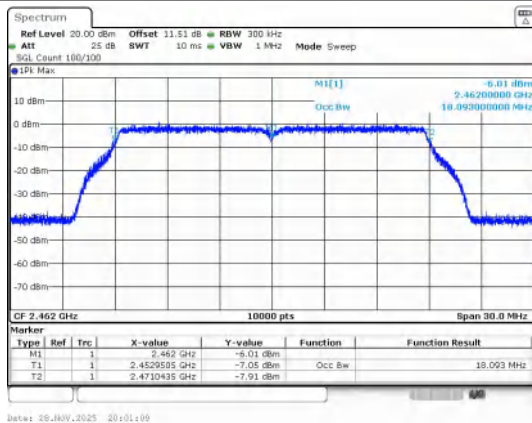
IEEE 802.11g_Channel 6_20MHz_Antenna 0



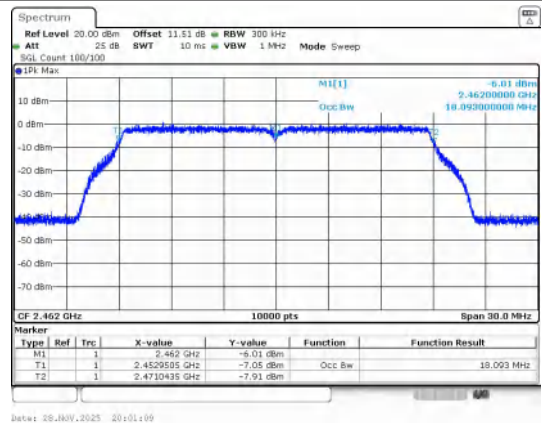
IEEE 802.11n_Channel 1_20MHz_Antenna 0



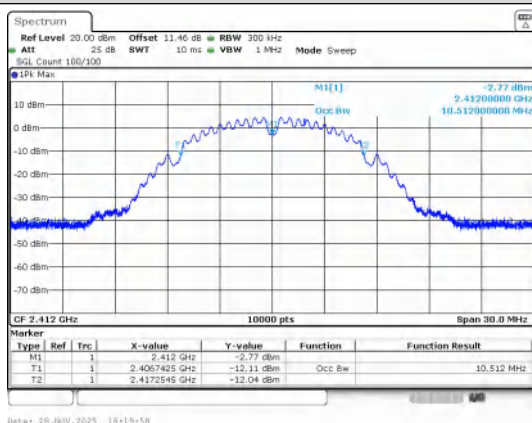
IEEE 802.11n_Channel 1_20MHz_Antenna 0



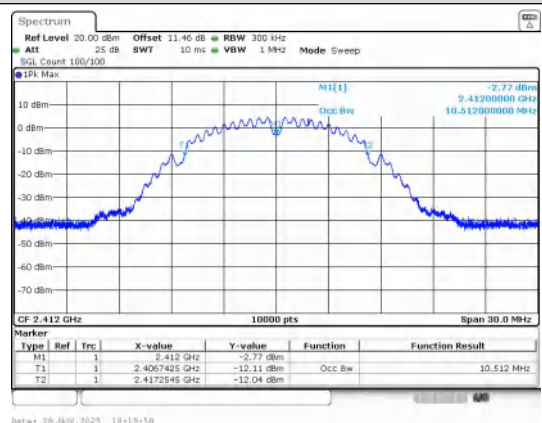
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

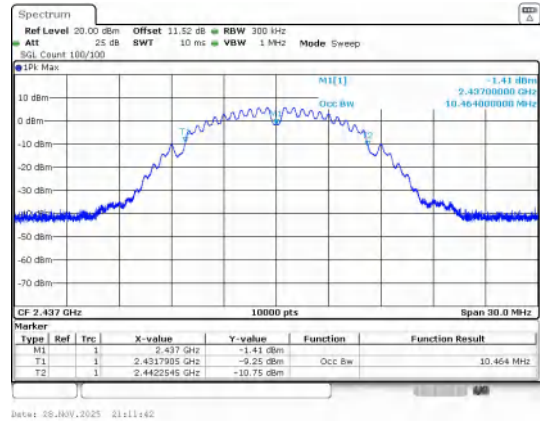
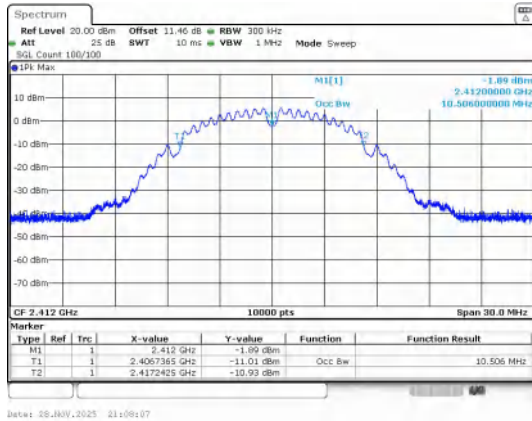


IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11b_Channel 1_20MHz_Antenna 0

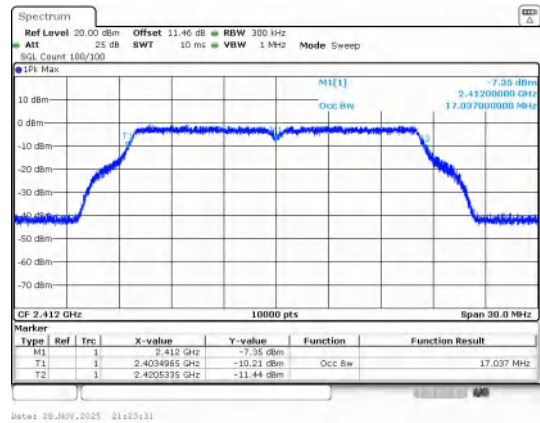
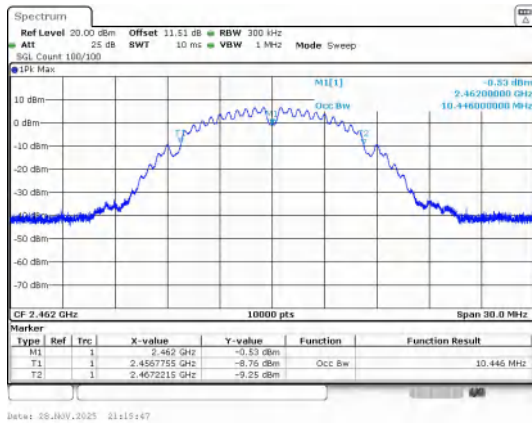
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Ant1:
Test Graphs



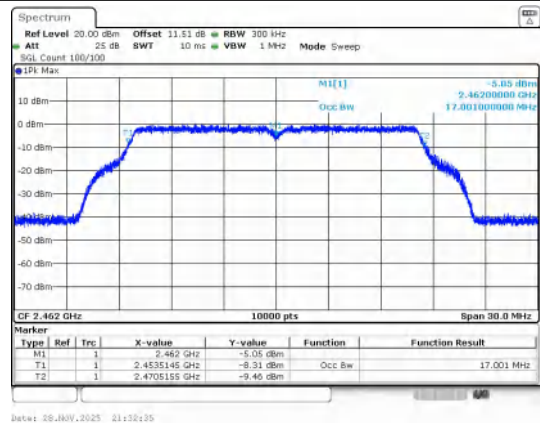
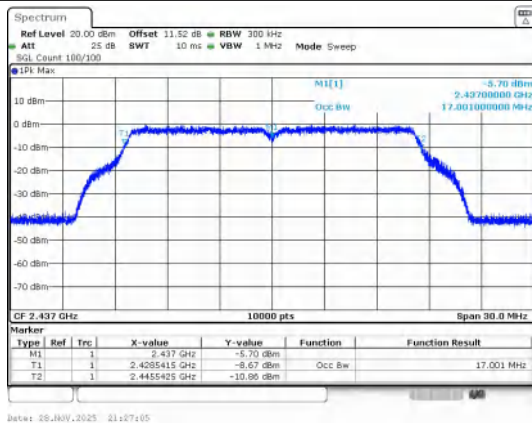
IEEE 802.11b_Channel 1_20MHz_Antenna 1

IEEE 802.11b_Channel 6_20MHz_Antenna 1



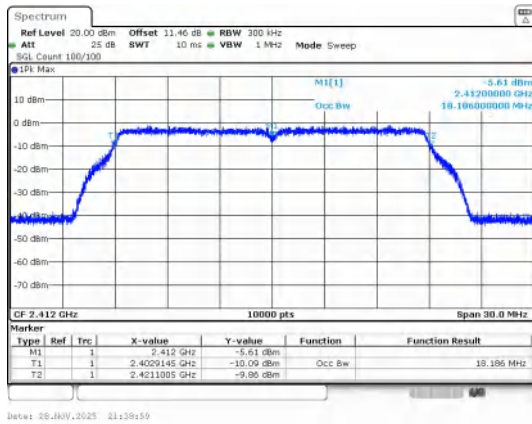
IEEE 802.11b_Channel 11_20MHz_Antenna 1

IEEE 802.11g_Channel 1_20MHz_Antenna 1

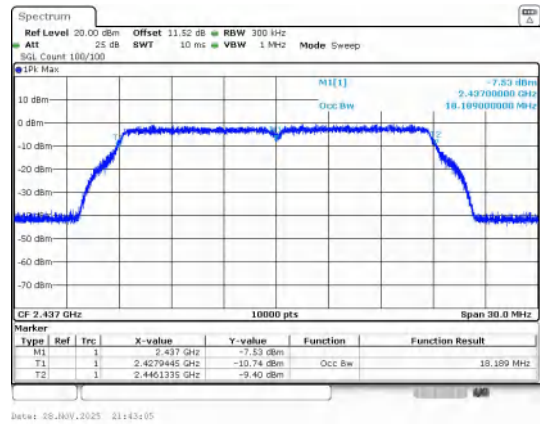


IEEE 802.11g_Channel 6_20MHz_Antenna 1

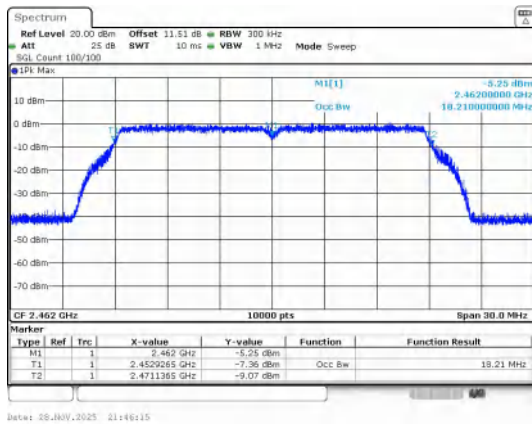
IEEE 802.11g_Channel 11_20MHz_Antenna 1



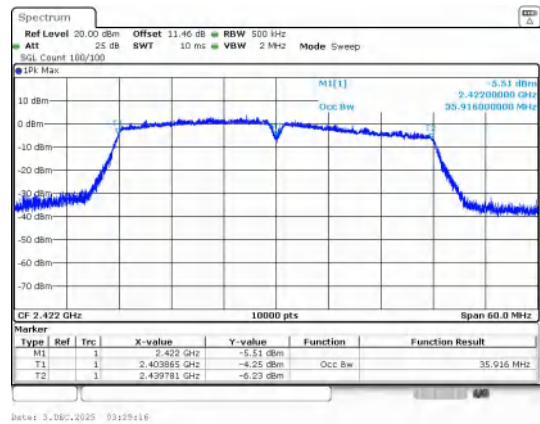
IEEE 802.11n_Channel 1_20MHz_Antenna 1



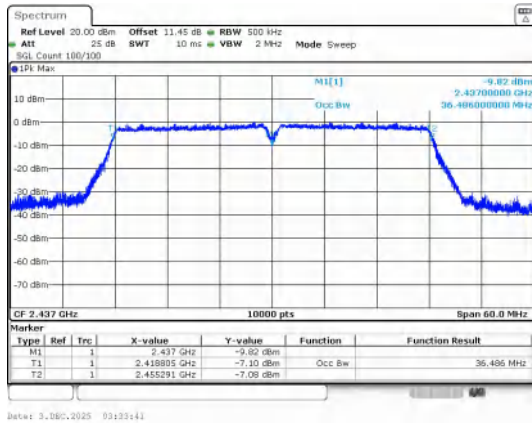
IEEE 802.11n_Channel 6_20MHz_Antenna 1



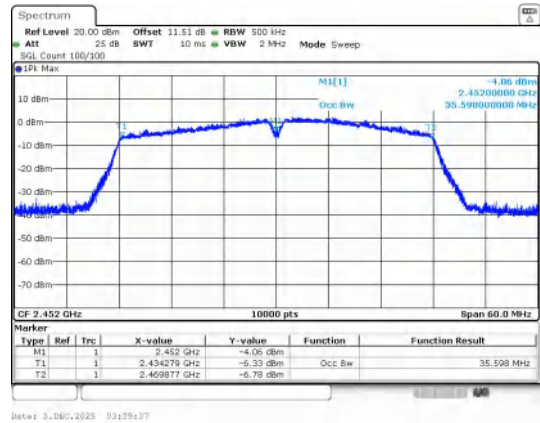
IEEE 802.11n_Channel 11_20MHz_Antenna 1



IEEE 802.11n_Channel 3_40MHz_Antenna 1



IEEE 802.11n_Channel 6_40MHz_Antenna 1



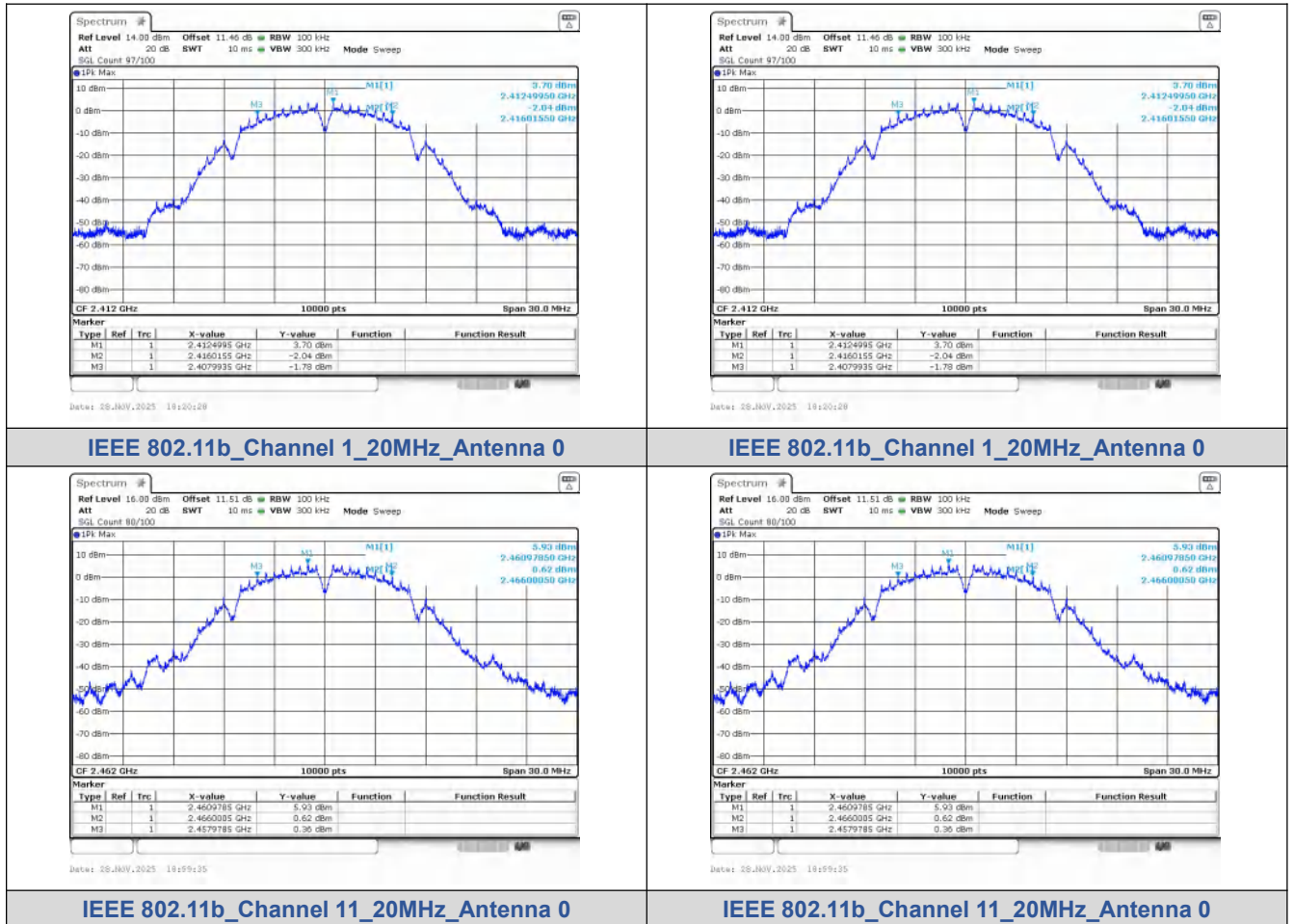
IEEE 802.11n_Channel 9_40MHz_Antenna 1

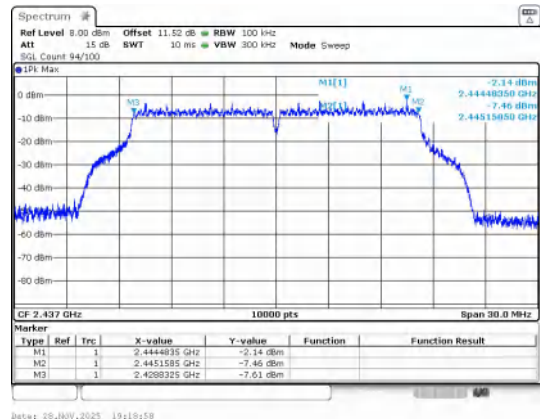
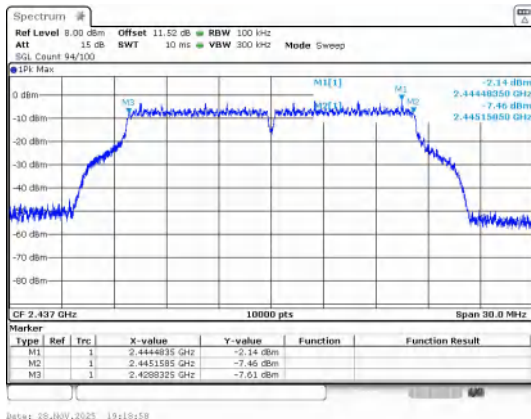
7.4. 6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.030	1	2412	7.070	≥0.5	PASS
	6		2437	7.540		2437	7.980		PASS
	11		2462	8.020		2462	7.030		PASS
IEEE 802.11g	1		2412	16.34		2412	16.35		PASS
	6		2437	16.33		2437	16.33		PASS
	11		2462	16.34		2462	16.34		PASS
IEEE 802.11n_20	1		2412	17.58		2412	17.59		PASS
	6		2437	17.58		2437	17.57		PASS
	11		2462	17.59		2462	17.57		PASS
IEEE 802.11n_40	3		2422	30.06		2422	30.04		PASS
	6		2437	36.00		2437	35.89		PASS
	9		2452	27.51		2452	26.29		PASS

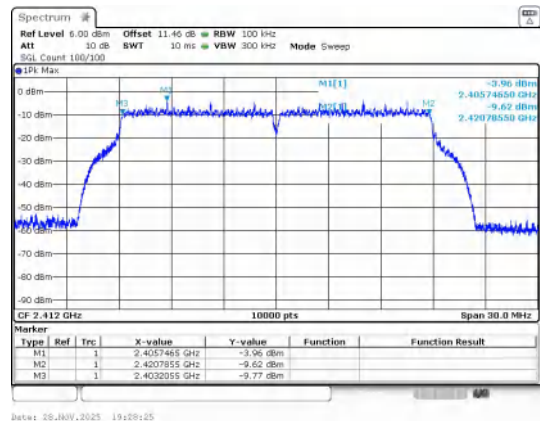
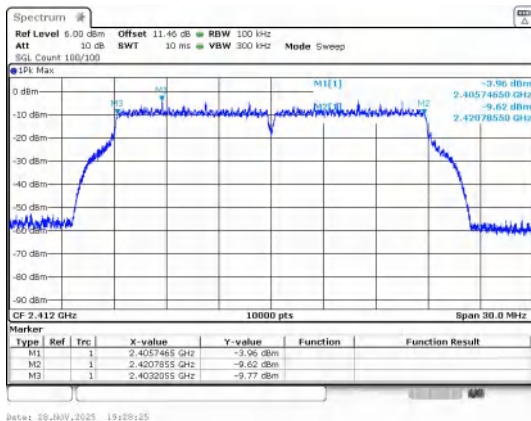
Test Graphs





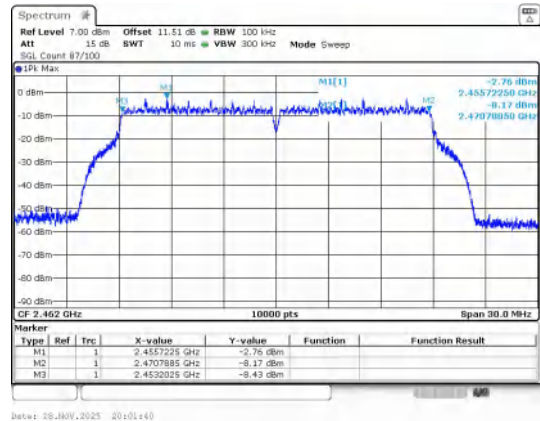
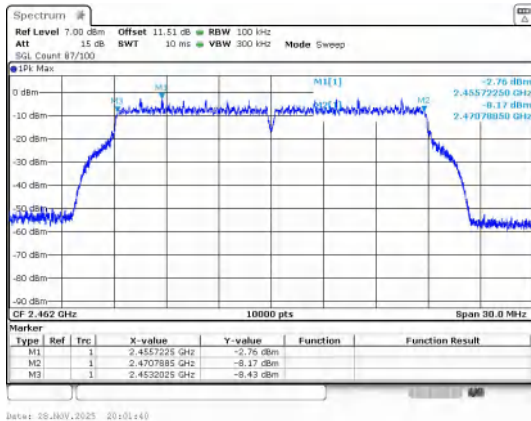
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 6_20MHz_Antenna 0



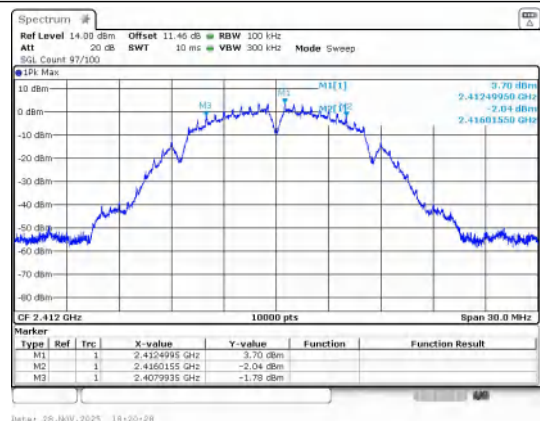
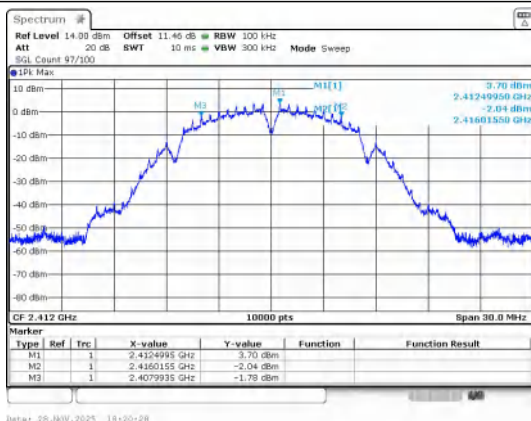
IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

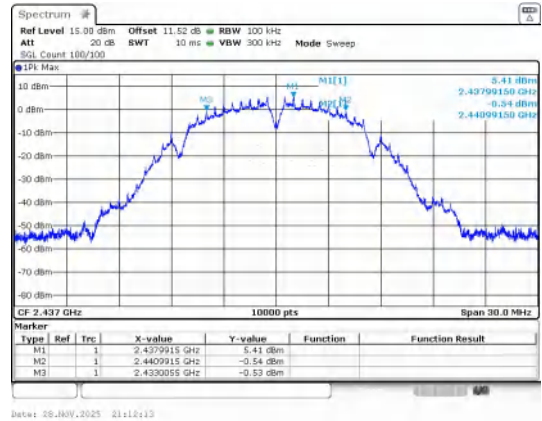
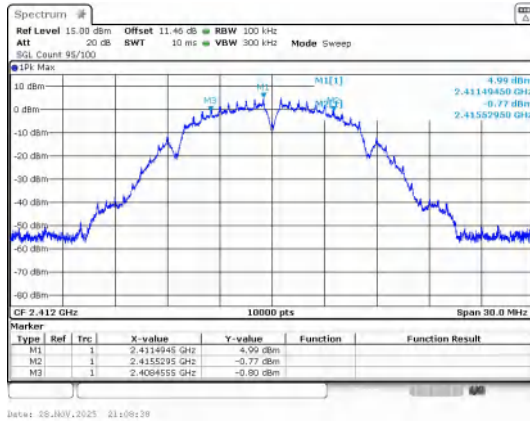
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11b_Channel 1_20MHz_Antenna 0

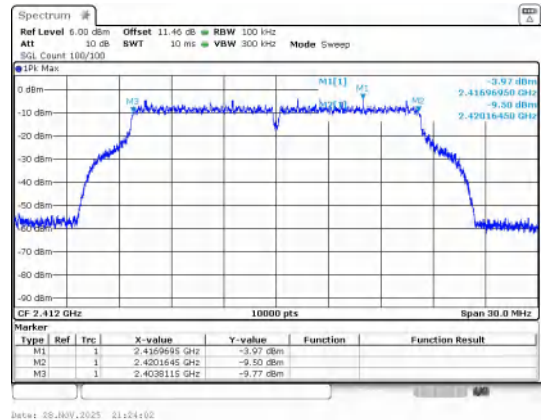
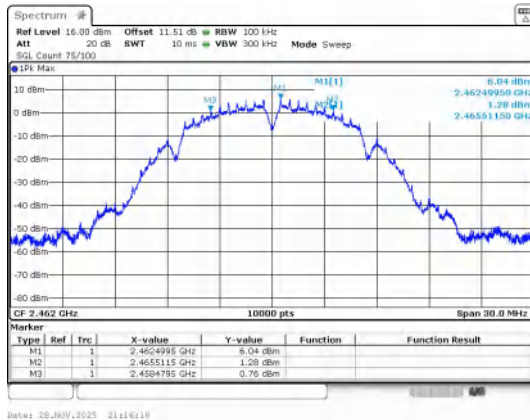
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Ant1:
Test Graphs



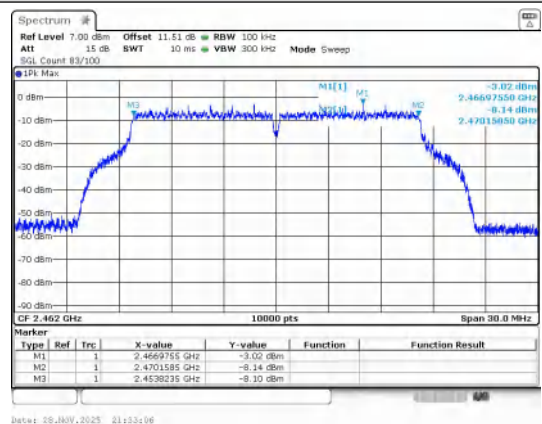
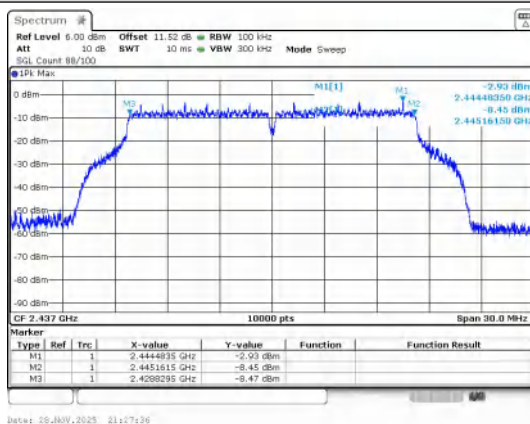
IEEE 802.11b_Channel 1_20MHz_Antenna 1

IEEE 802.11b_Channel 6_20MHz_Antenna 1



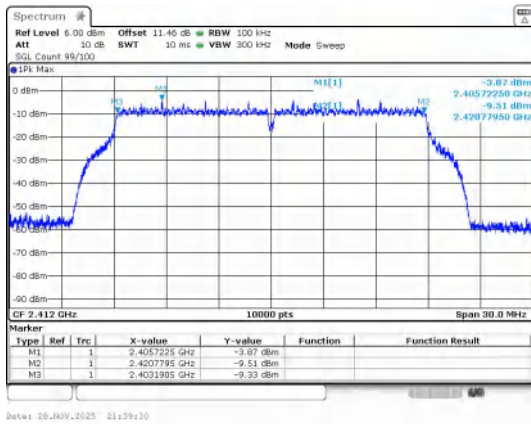
IEEE 802.11b_Channel 11_20MHz_Antenna 1

IEEE 802.11g_Channel 1_20MHz_Antenna 1

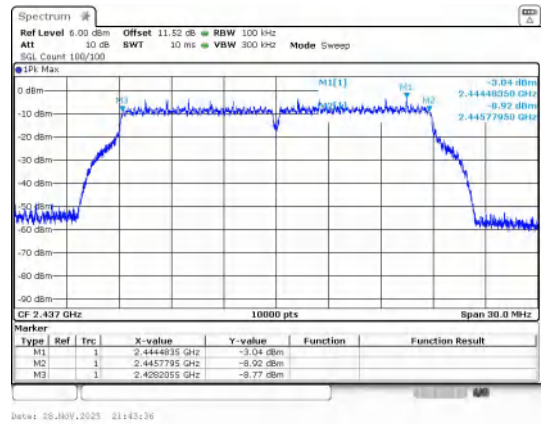


IEEE 802.11g_Channel 6_20MHz_Antenna 1

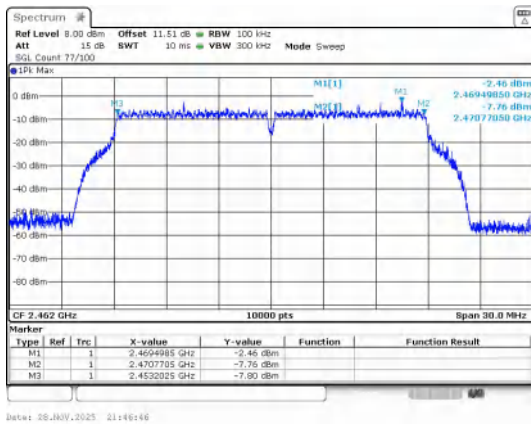
IEEE 802.11g_Channel 11_20MHz_Antenna 1



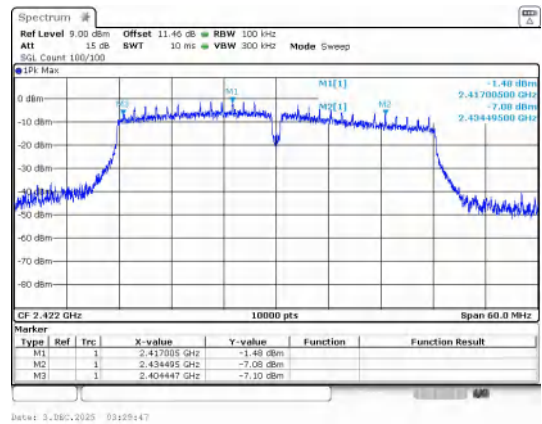
IEEE 802.11n_Channel 1_20MHz_Antenna 1



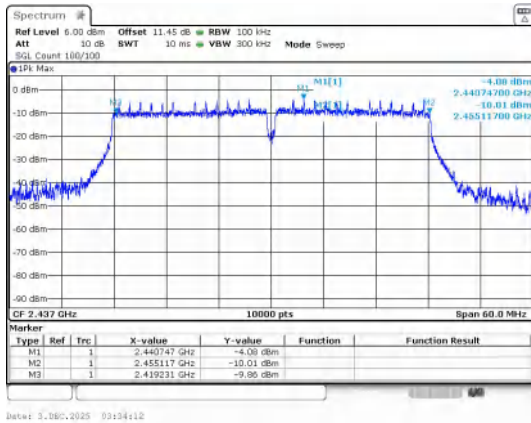
IEEE 802.11n_Channel 6_20MHz_Antenna 1



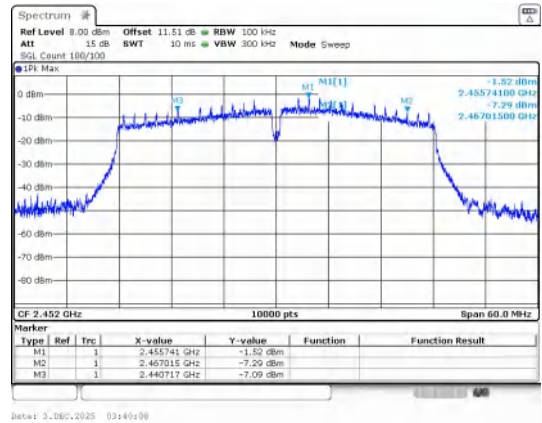
IEEE 802.11n_Channel 11_20MHz_Antenna 1



IEEE 802.11n_Channel 3_40MHz_Antenna 1



IEEE 802.11n_Channel 6_40MHz_Antenna 1



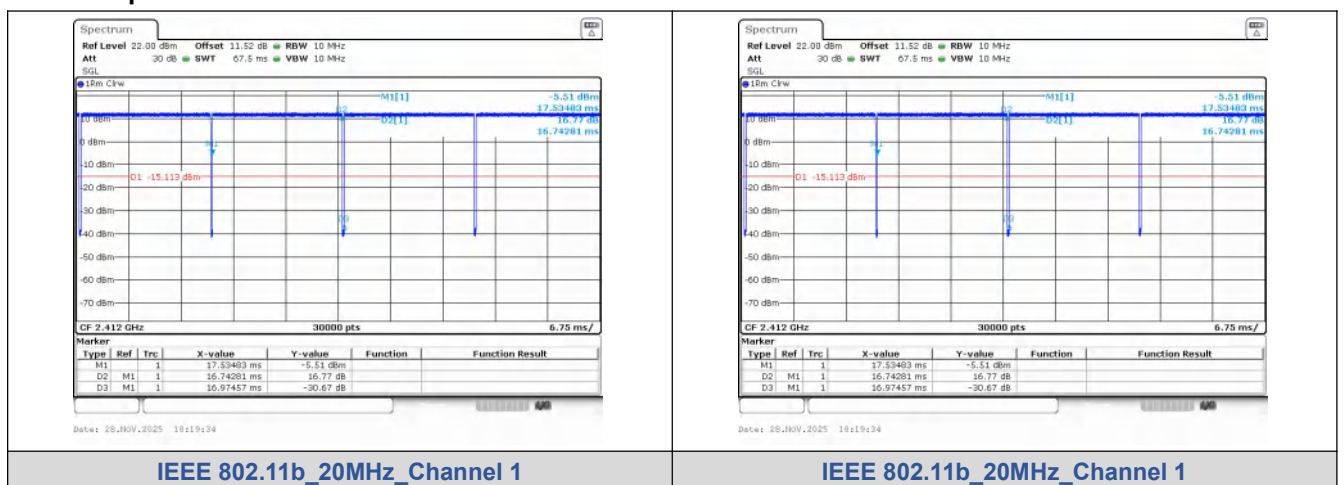
IEEE 802.11n_Channel 9_40MHz_Antenna 1

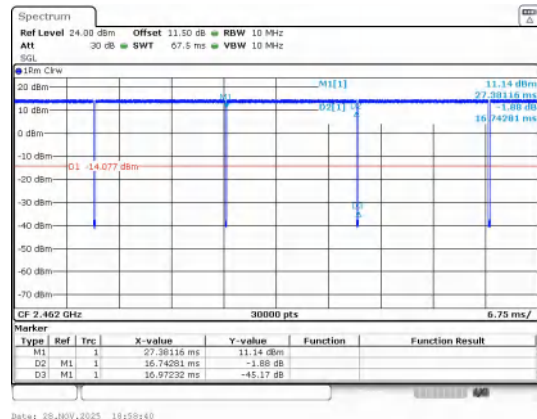
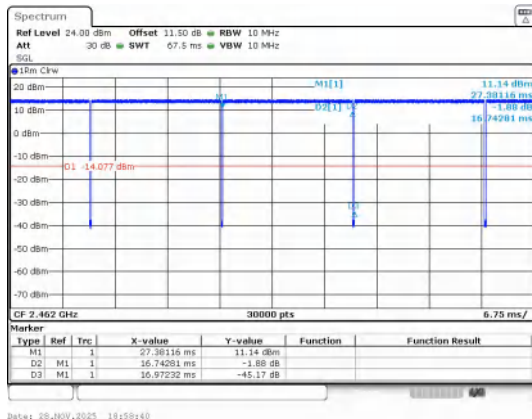
7.5. Duty Cycle

Test Result

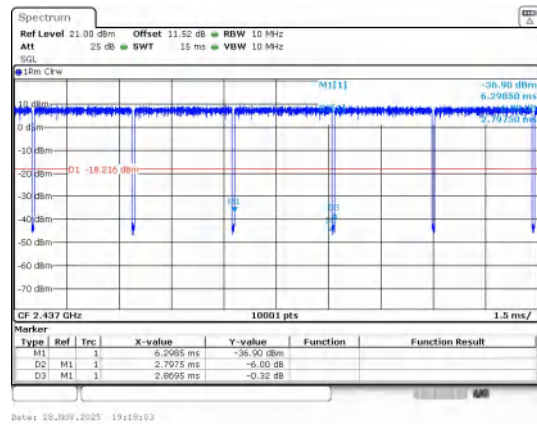
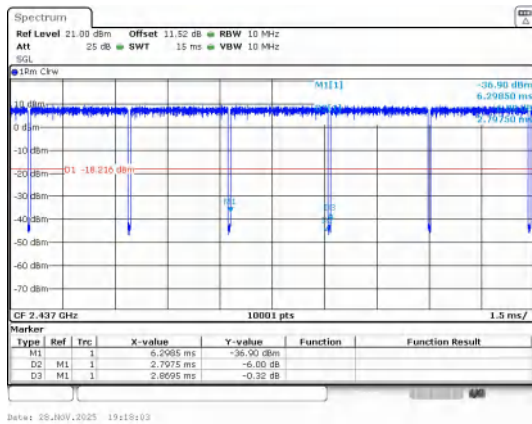
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	0	16.743	16.975	98.63	0.9863	0.0599	0.0597
		6		16.743	16.972	98.65	0.9865	0.059	0.0597
		11		16.743	16.972	98.65	0.9865	0.059	0.0597
1		2.798		2.871	97.44	0.9744	0.1126	0.3574	
6		2.798		2.870	97.49	0.9749	0.1104	0.3574	
11		2.796		2.870	97.42	0.9742	0.1135	0.3577	
IEEE 802.11n_20	MCS 0	1		2.600	2.674	97.23	0.9723	0.122	0.3846
		6		2.600	2.674	97.23	0.9723	0.122	0.3846
		11		2.600	2.674	97.23	0.9723	0.122	0.3846
3		0.650		0.684	95.00	0.9500	0.2228	1.5385	
6		0.650		0.684	94.94	0.9494	0.2255	1.5385	
9		0.650		0.684	95.00	0.9500	0.2228	1.5385	
IEEE 802.11b	1	1	1	16.743	16.972	98.65	0.9865	0.059	0.0597
		6		16.743	16.972	98.65	0.9865	0.059	0.0597
		11		16.743	16.972	98.65	0.9865	0.059	0.0597
1		2.798		2.871	97.44	0.9744	0.1126	0.3574	
6		2.798		2.869	97.49	0.9749	0.1104	0.3574	
11		2.796		2.870	97.42	0.9742	0.1135	0.3577	
IEEE 802.11n_20	MCS 0	1		2.600	2.674	97.23	0.9723	0.122	0.3846
		6		2.603	2.675	97.31	0.9731	0.1184	0.3842
		11		2.600	2.674	97.23	0.9723	0.122	0.3846
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

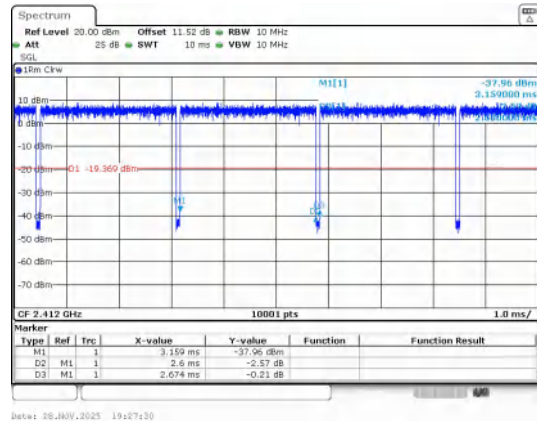
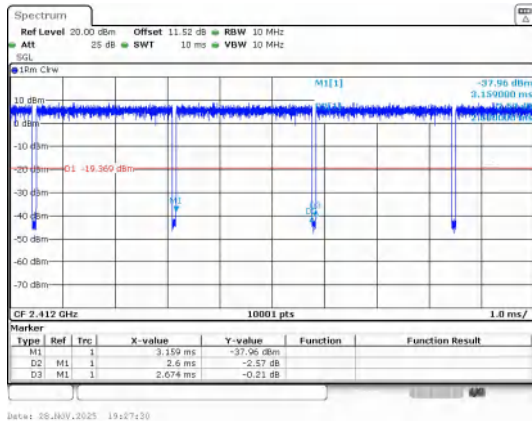




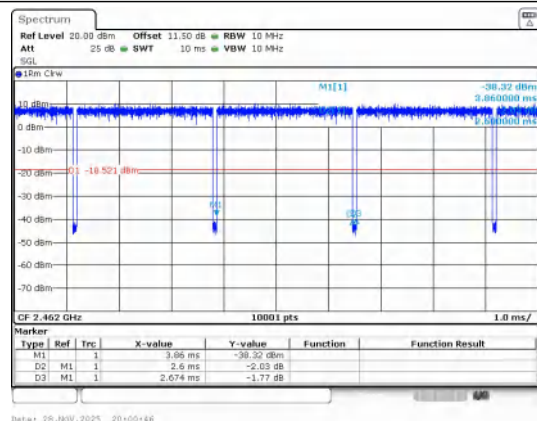
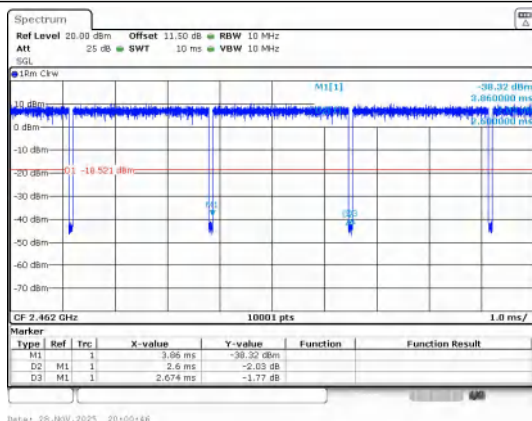
IEEE 802.11b_20MHz_Channel 11

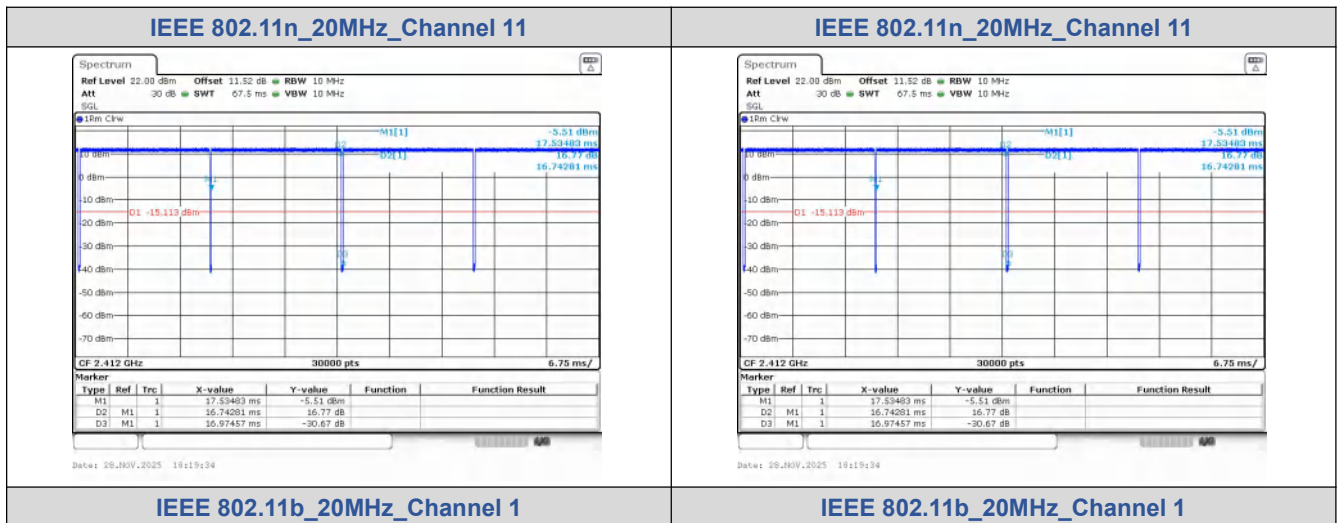


IEEE 802.11g_20MHz_Channel 6

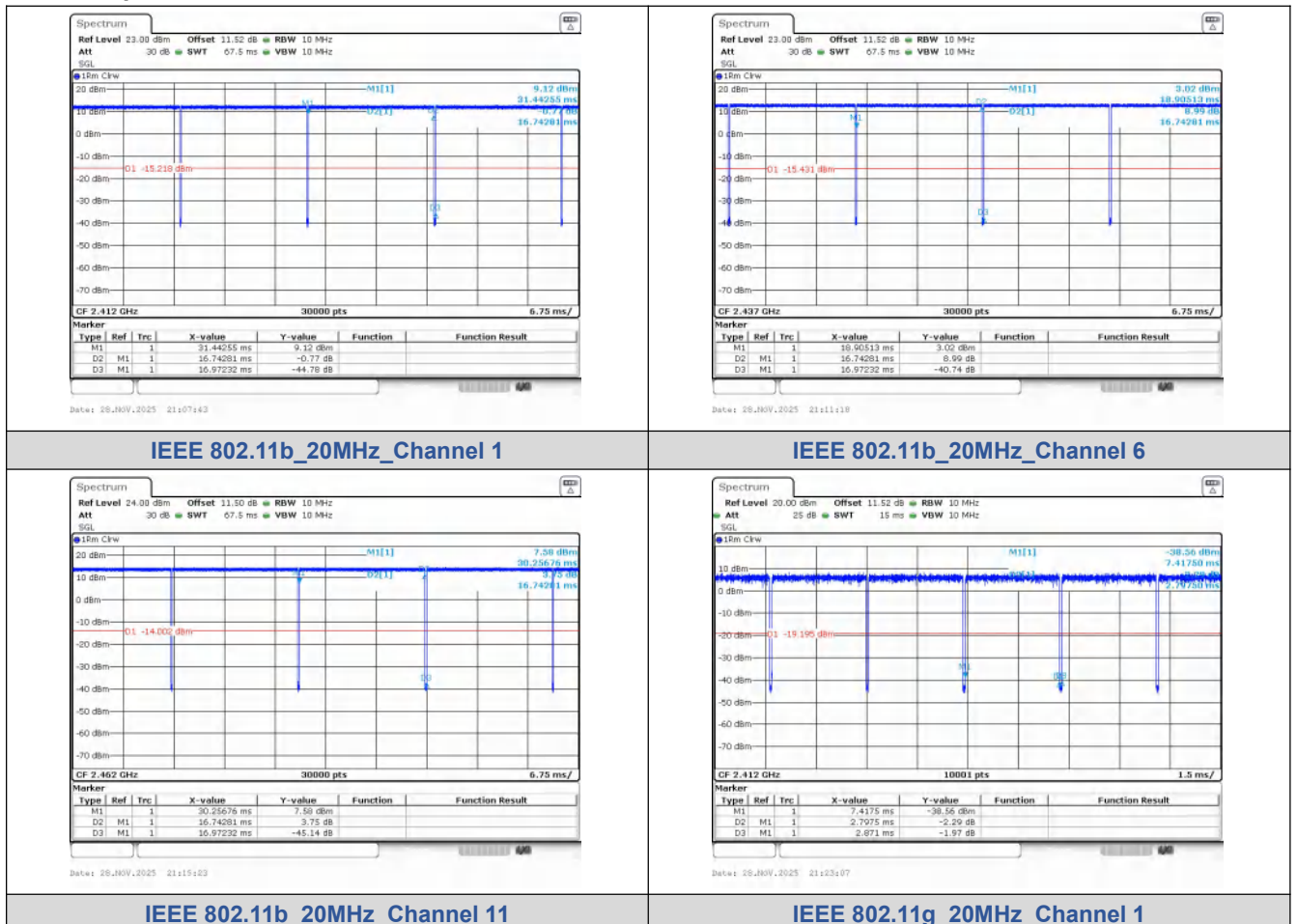


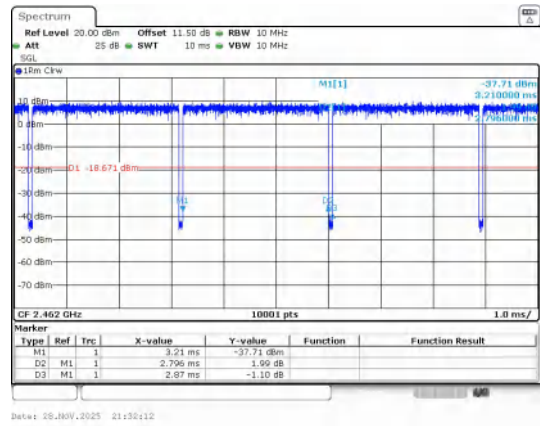
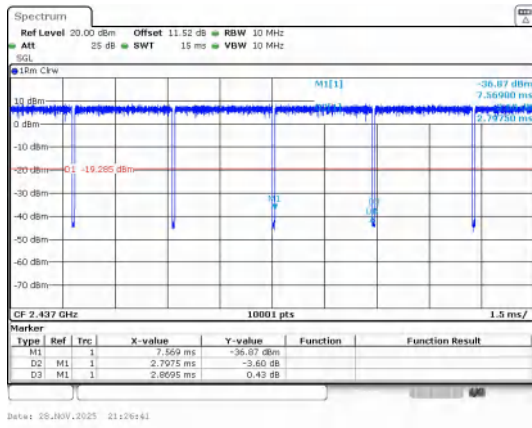
IEEE 802.11n_20MHz_Channel 1



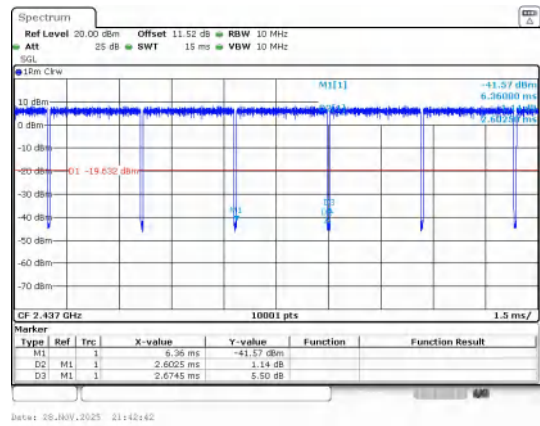
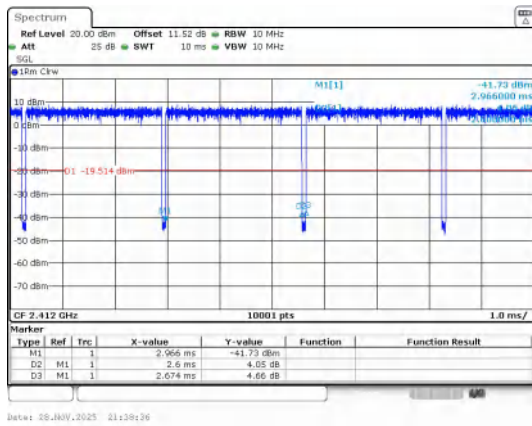


Ant1:
Test Graphs

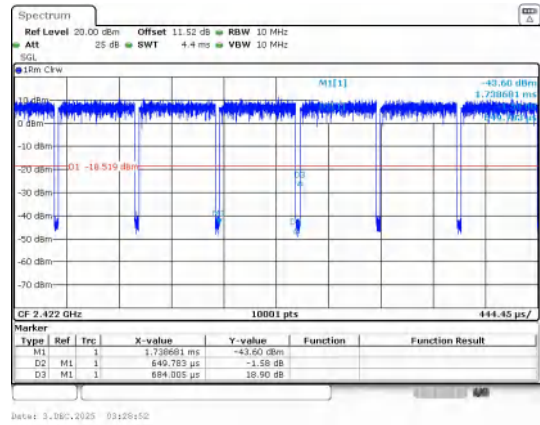
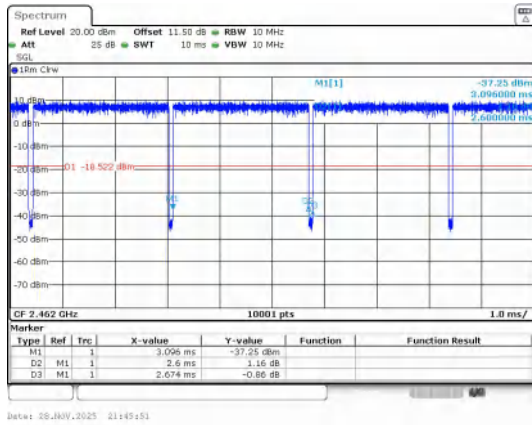




IEEE 802.11g_20MHz_Channel 6

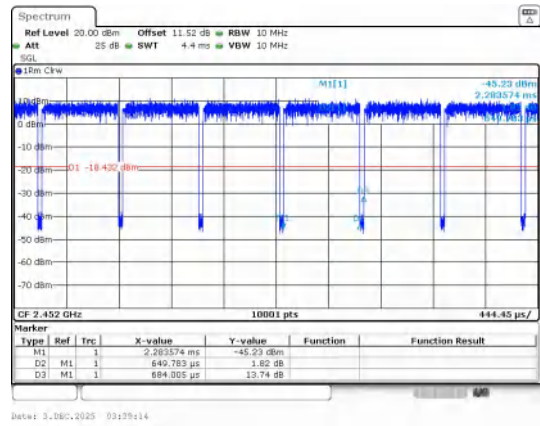
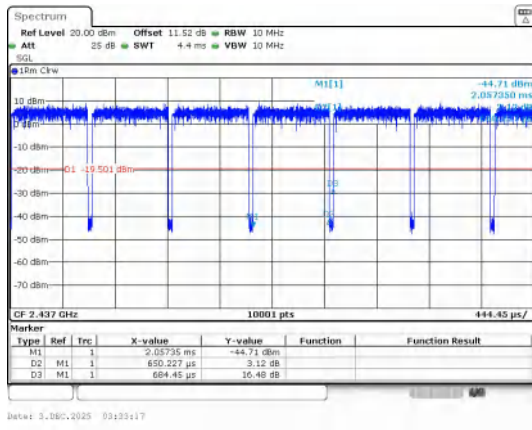


IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 11

IEEE 802.11n_40MHz_Channel 3



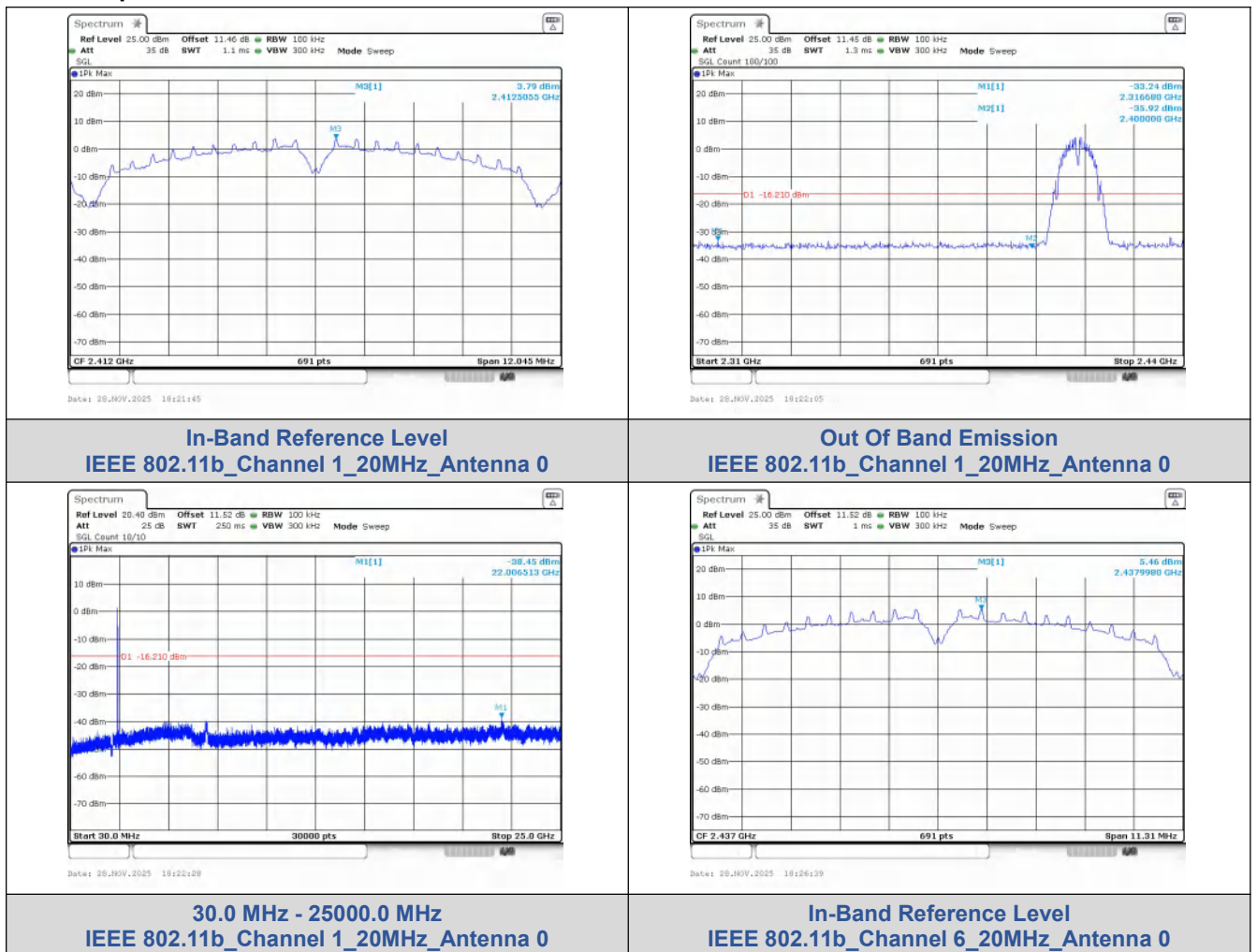
7.6. Conducted Spurious & Band Edge Emission

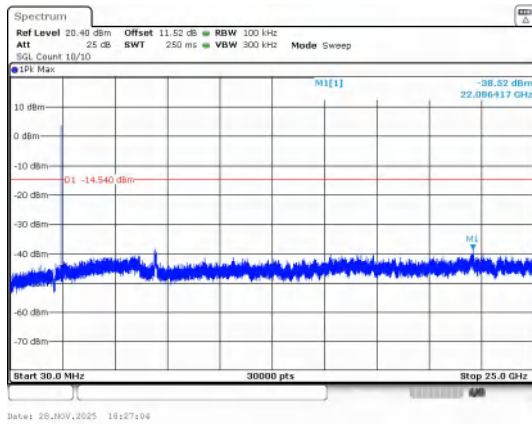
Test Result

Mode	Channel	Ant .	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Ant .	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Ant.0 Over Limit (dB)	Ant.1 Over Limit (dB)	Result
IEEE 802.11b	1	0	2316.68	-33.240	1	2394.00	-32.923	-16.21	-17.030	-17.873	PASS
			2400.00	-35.920		2400.00	-36.380	-16.21	-19.710	-21.330	PASS
			22006.5	-38.447		6958.80	-39.281	-16.21	-22.237	-24.231	PASS
	6		22086.4	-38.523		6966.25	-38.856	-14.54	-23.983	-24.056	PASS
	11		2483.50	-34.670		2483.50	-33.970	-13.75	-20.920	-19.820	PASS
			6931.29	-39.308		6899.66	-38.197	-13.75	-25.558	-24.047	PASS
IEEE 802.11g	1		2325.33	-32.972		2382.71	-32.913	-22.96	-10.012	-9.193	PASS
			2400.00	-35.510		2400.00	-35.660	-22.96	-12.550	-11.940	PASS
			22026.5	-39.042		24976.3	-39.714	-22.96	-16.082	-15.994	PASS
	6		22019.8	-38.186		6902.16	-39.329	-22.45	-15.736	-16.259	PASS
	11		2483.50	-32.820		2483.50	-33.610	-22.48	-10.340	-11.150	PASS
			6938.78	-37.901		6977.90	-39.008	-22.48	-15.421	-16.548	PASS
IEEE 802.11n_20	1	2328.91	-33.436	2357.88	-33.129	-23.93	-9.506	-9.299	PASS		
		2400.00	-35.540	2400.00	-34.610	-23.93	-11.610	-10.780	PASS		
		6023.20	-38.629	6932.10	-39.362	-23.93	-14.699	-15.532	PASS		
	6	22024.8	-38.964	6976.24	-39.399	-23.53	-15.434	-16.409	PASS		
	11	2483.50	-35.360	2483.50	-34.110	-22.96	-12.400	-11.720	PASS		
		21965.7	-39.319	6964.59	-39.258	-22.96	-16.359	-16.868	PASS		

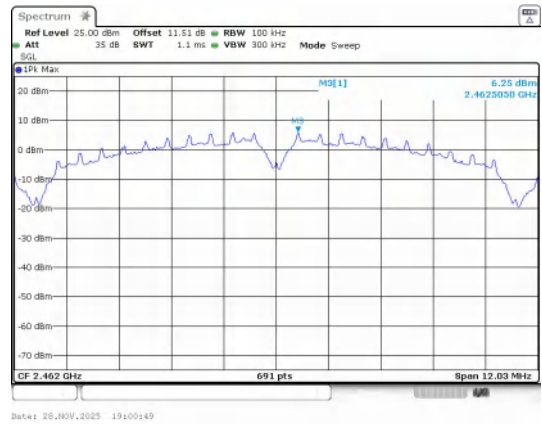
IEEE 802.11n_4 0	3		2360.51	-31.901		2395.13	-32.219	-22.58	-9.321	-10.61 9	PASS	
			2400.00	-35.240		2400.00	-33.890	-22.58	12.66 0	12.29 0	PASS	
			6970.40	-38.120		6913.00	-39.547	-22.58	15.54 0	17.94 7	PASS	
	6		22005.7	-39.302		6924.63	-39.007	-24.08	15.22 2	15.03 7	PASS	
			9	2483.50		-33.090	2483.50	-34.890	-21.77	11.32 0	12.23 0	PASS
				22045.6		-38.558	5939.98	-39.509	-21.77	16.78 8	16.84 9	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)												

Test Graphs

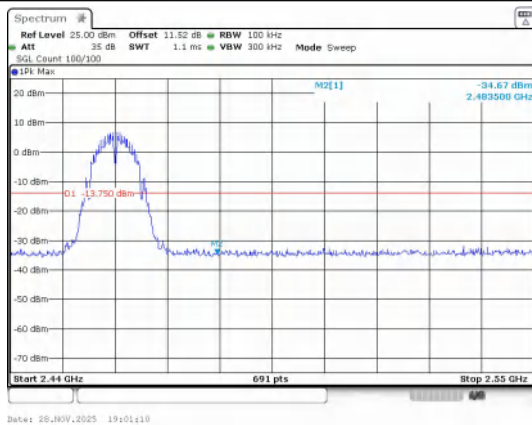




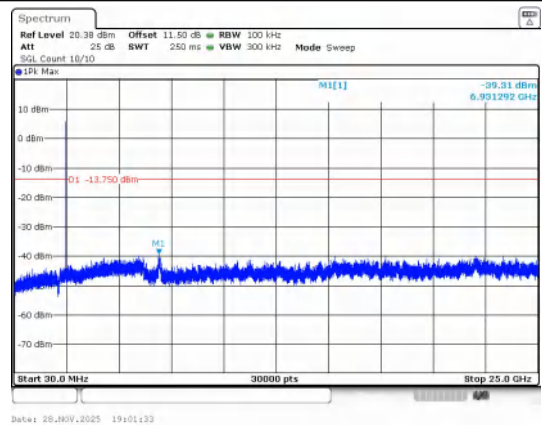
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



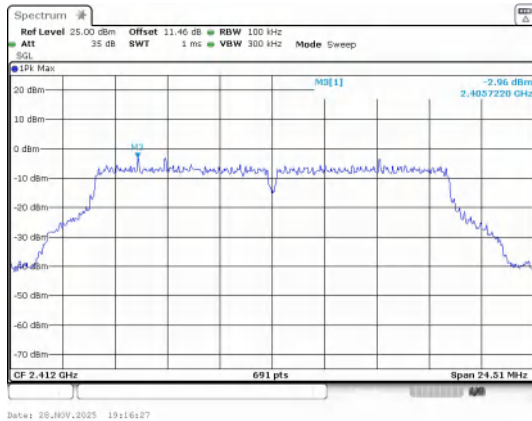
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



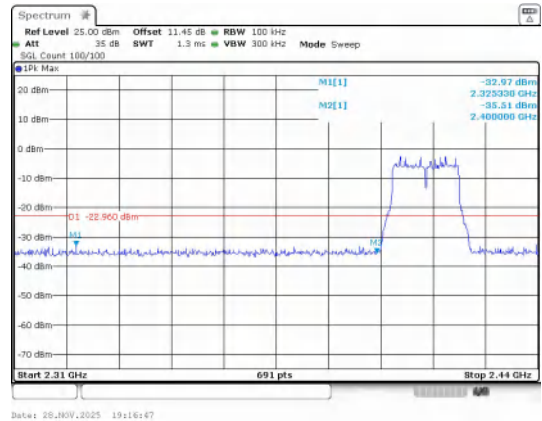
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



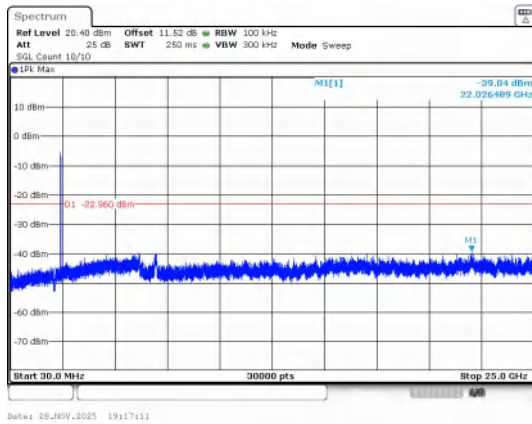
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IEEE 802.11b_Channel 11_20MHz_Antenna 0



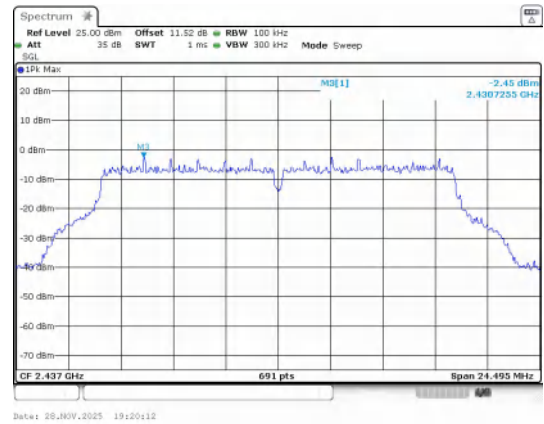
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



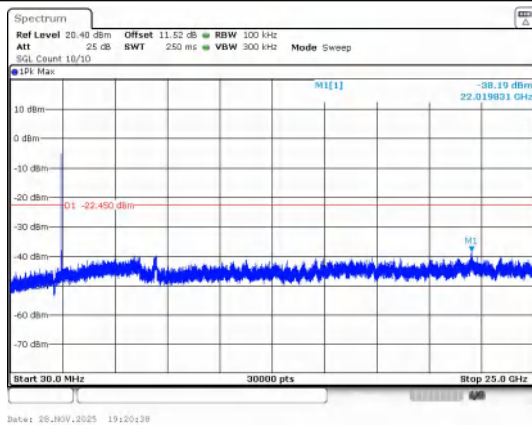
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



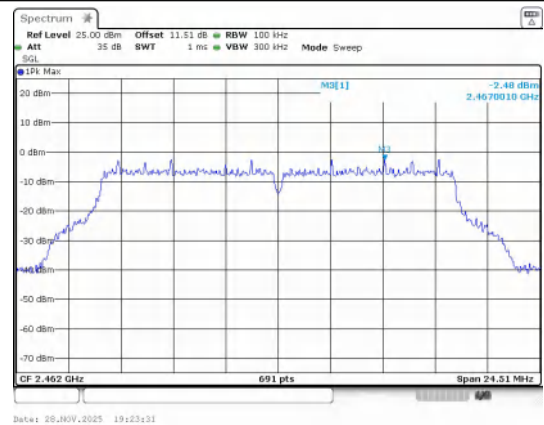
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



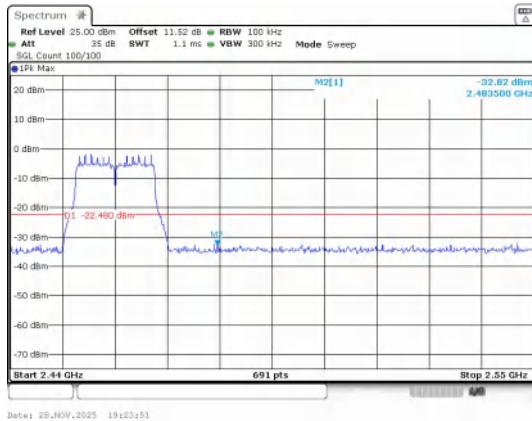
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



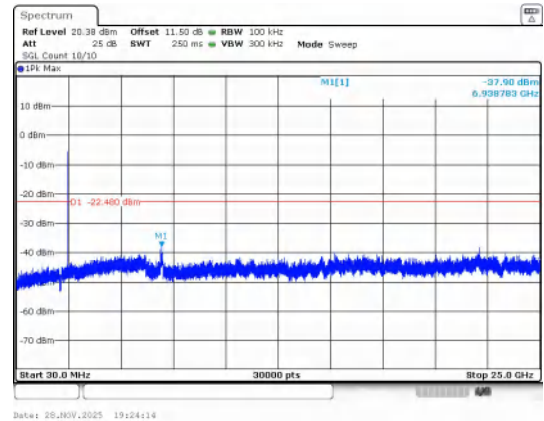
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



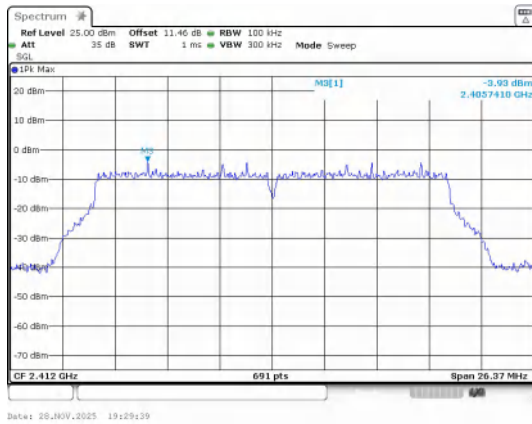
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



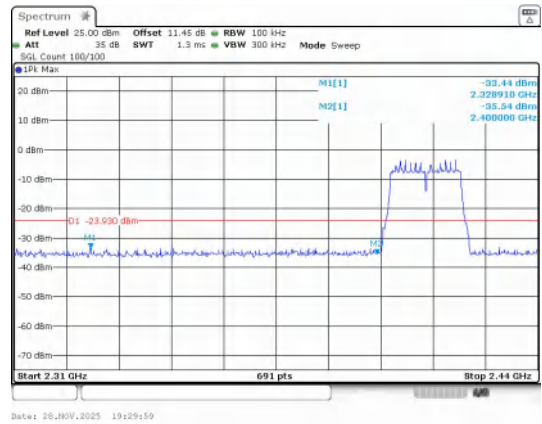
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



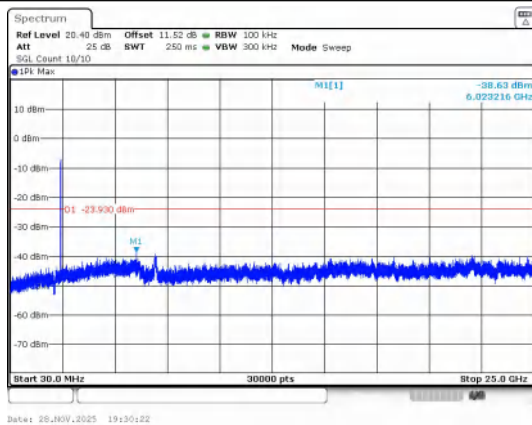
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



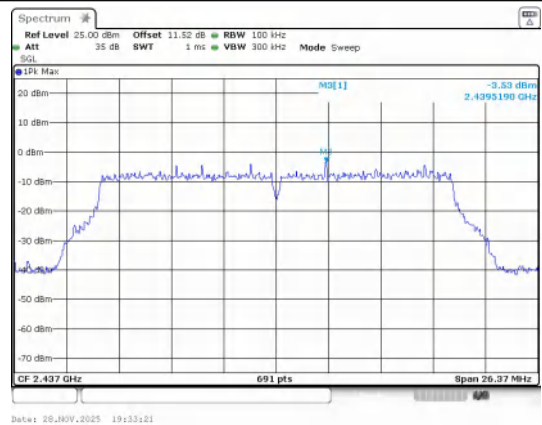
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



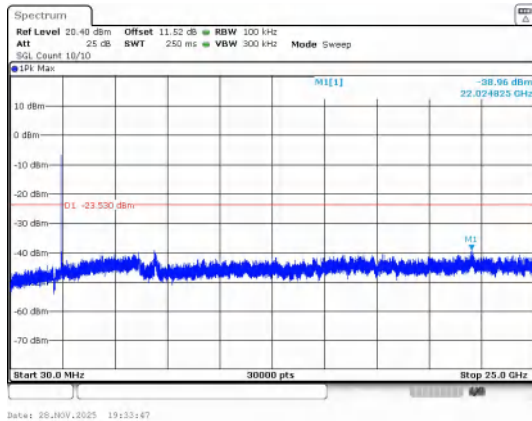
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



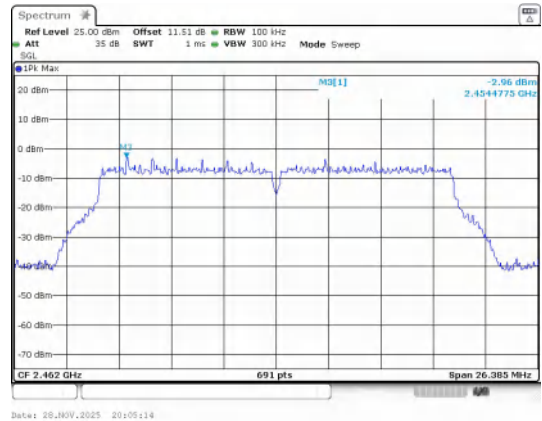
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



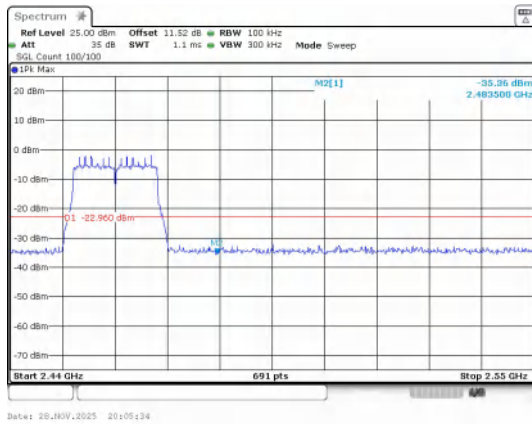
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



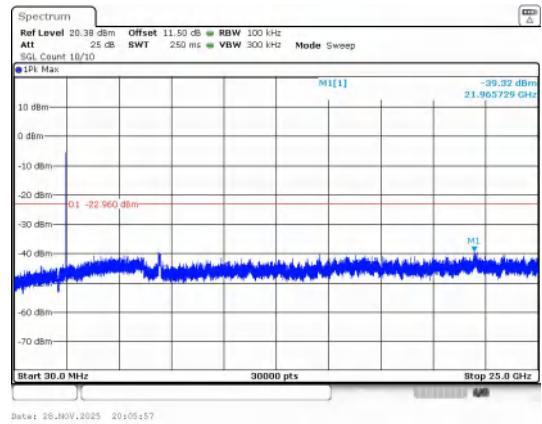
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



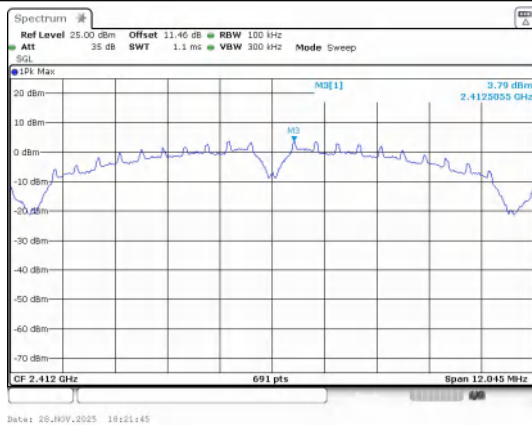
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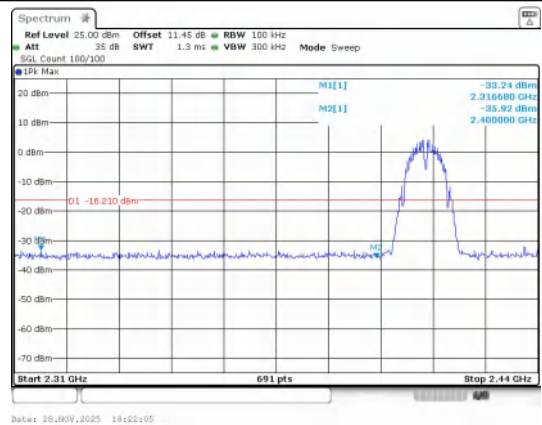
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IEEE 802.11n_Channel 11_20MHz_Antenna 0



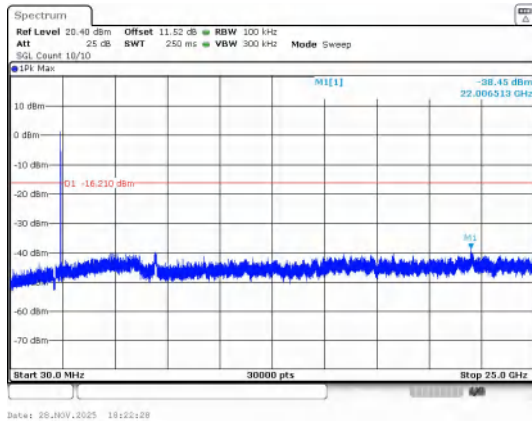
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IEEE 802.11n_Channel 11_20MHz_Antenna 0



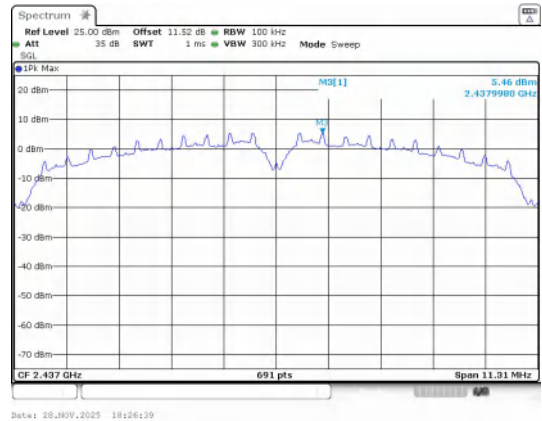
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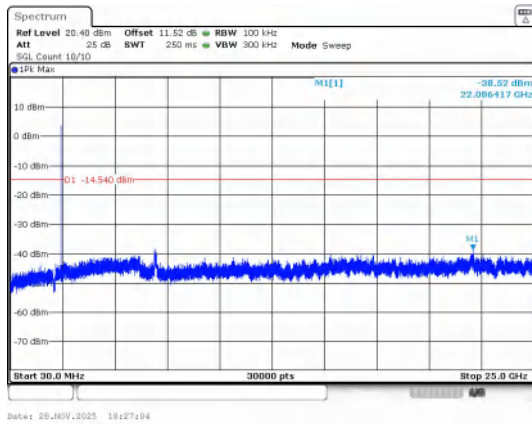
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



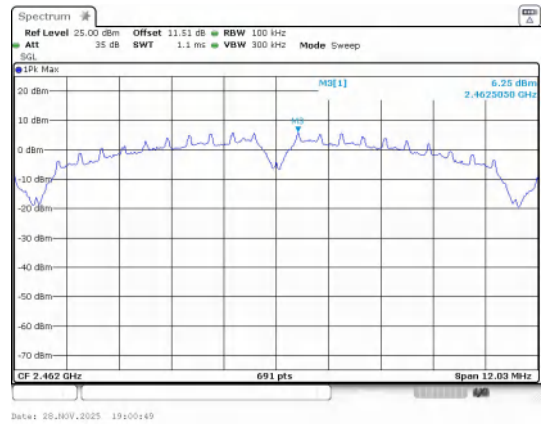
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IEEE 802.11b_Channel 1_20MHz_Antenna 0



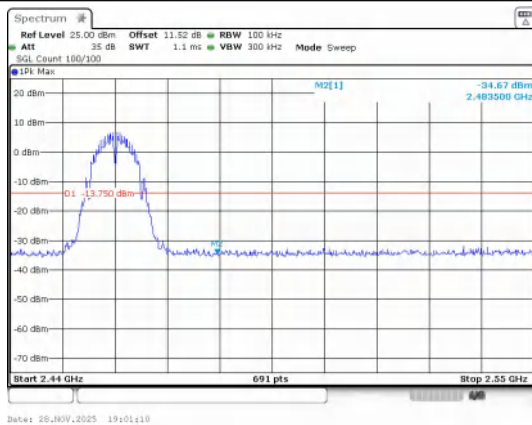
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



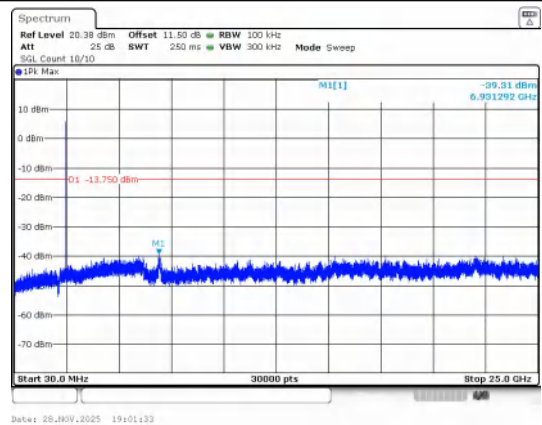
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IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0

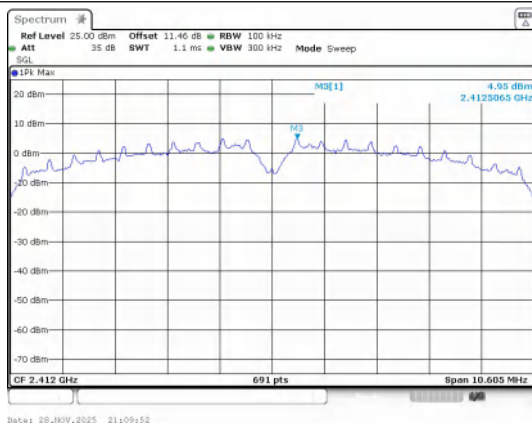


Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

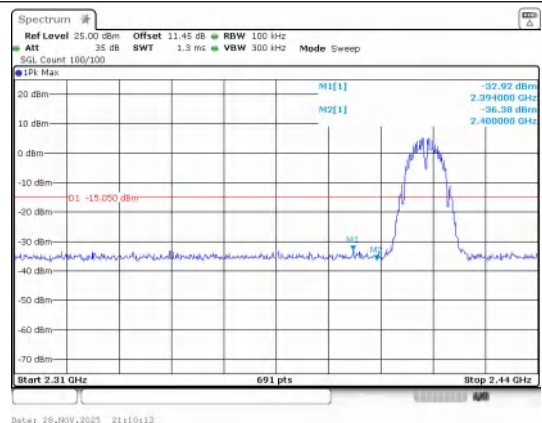


30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0

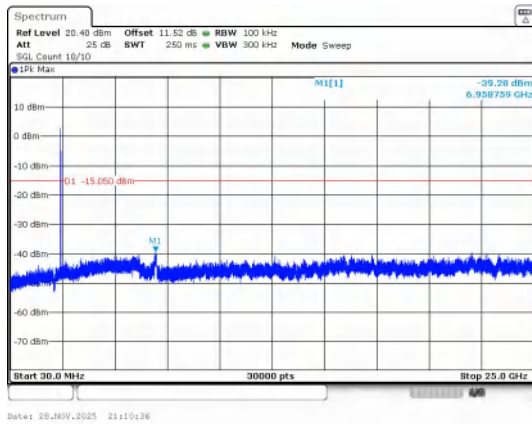
Ant1: Test Graphs



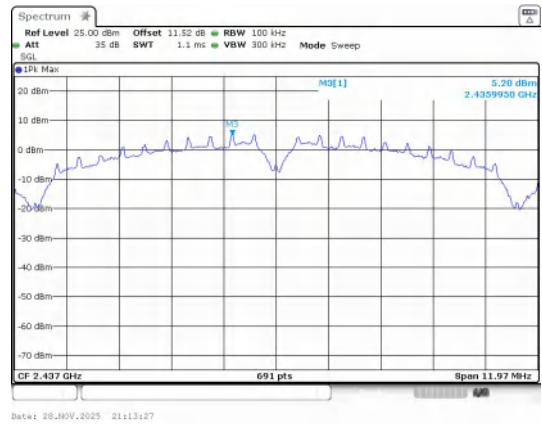
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 1



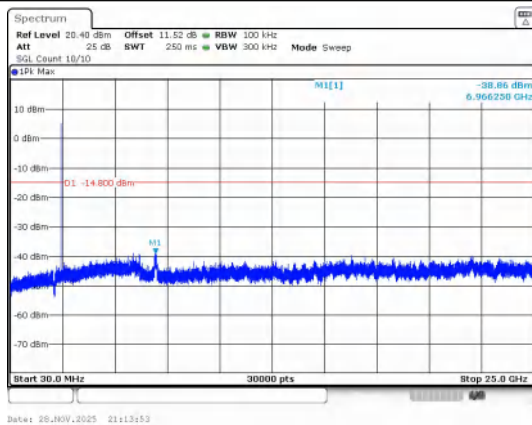
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 1



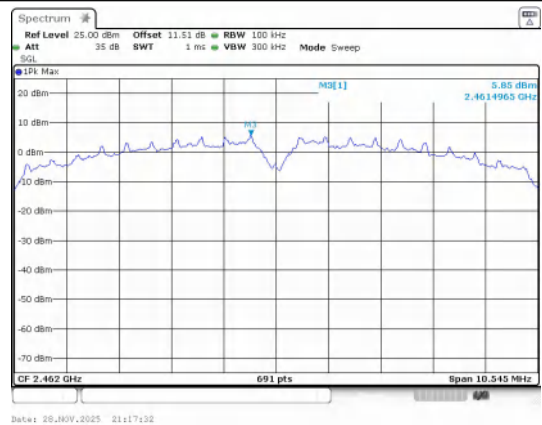
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 1



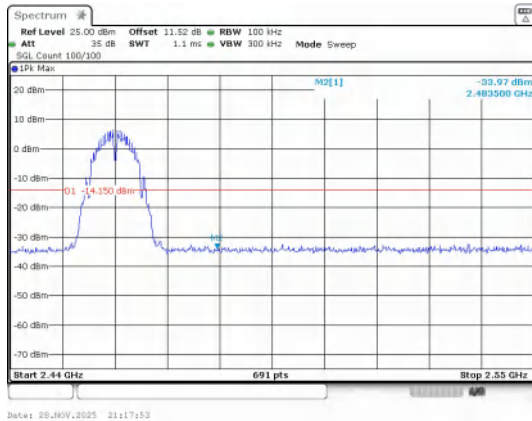
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IEEE 802.11b_Channel 6_20MHz_Antenna 1



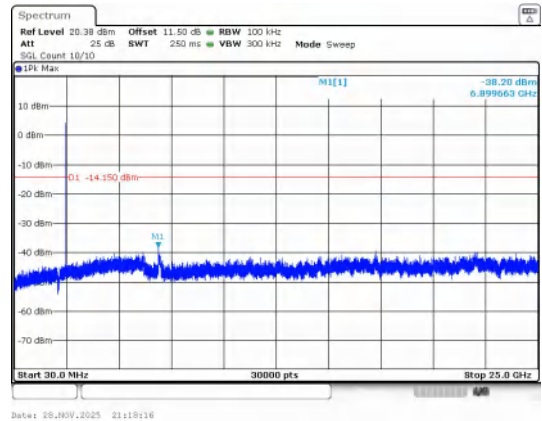
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IEEE 802.11b_Channel 6_20MHz_Antenna 1



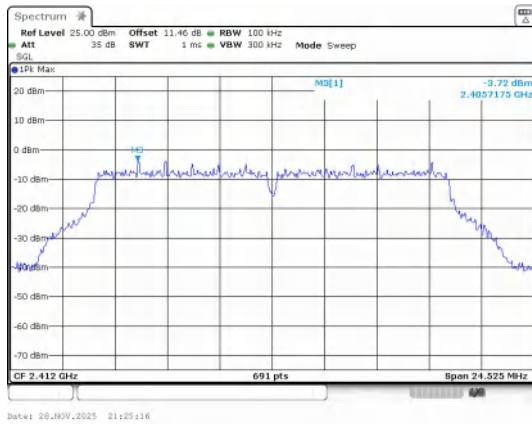
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IEEE 802.11b_Channel 11_20MHz_Antenna 1



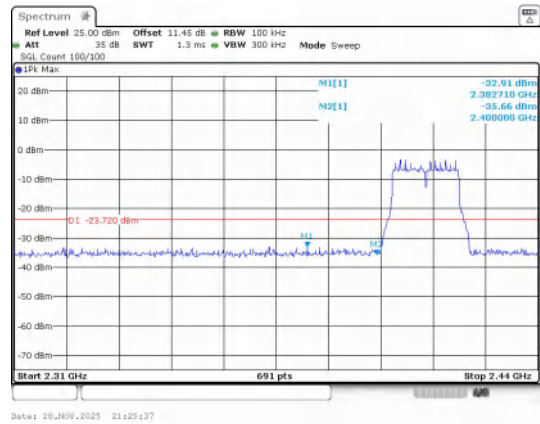
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 1



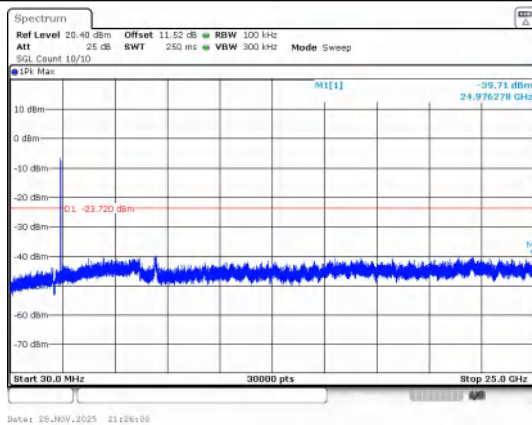
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 1



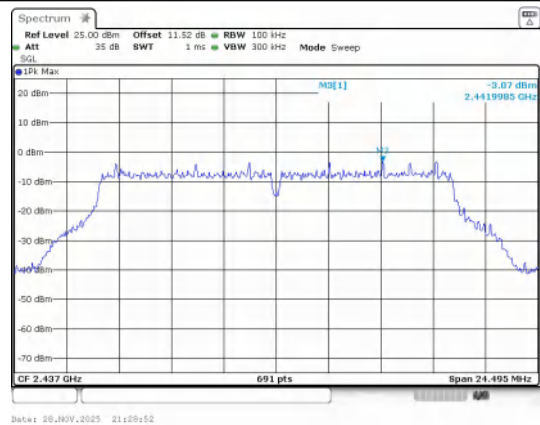
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 1



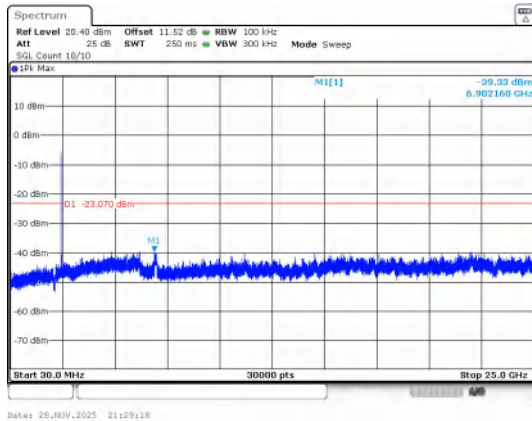
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 1



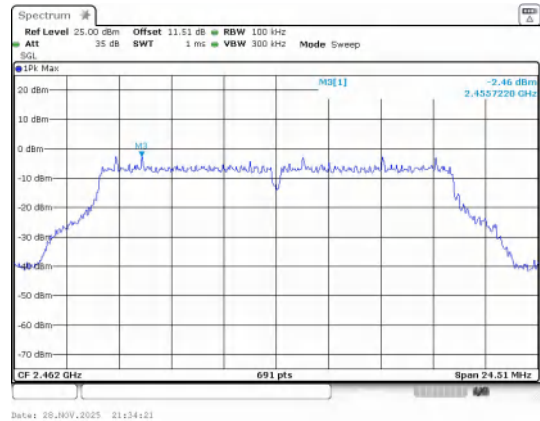
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 1



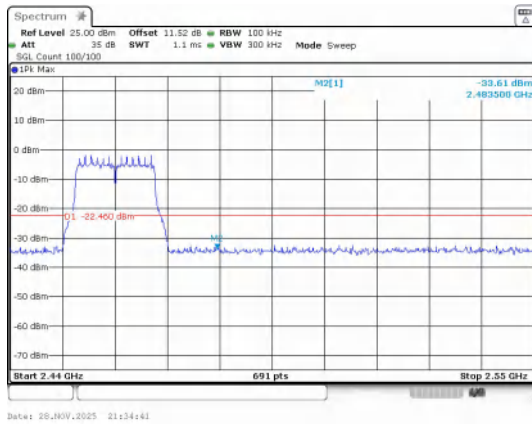
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 1



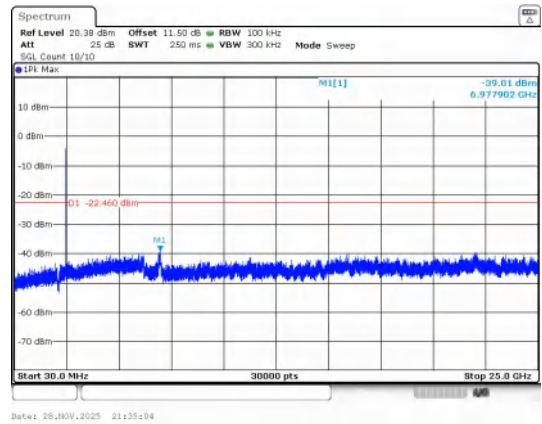
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IEEE 802.11g_Channel 6_20MHz_Antenna 1



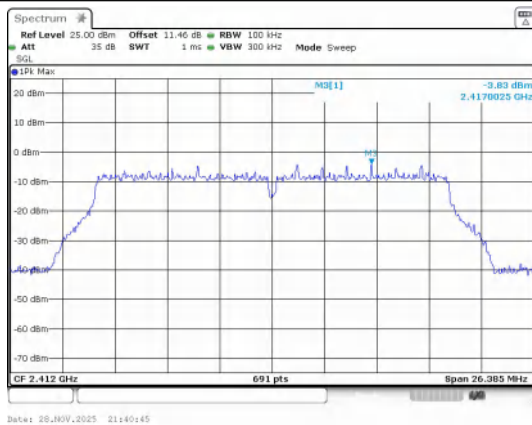
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 1



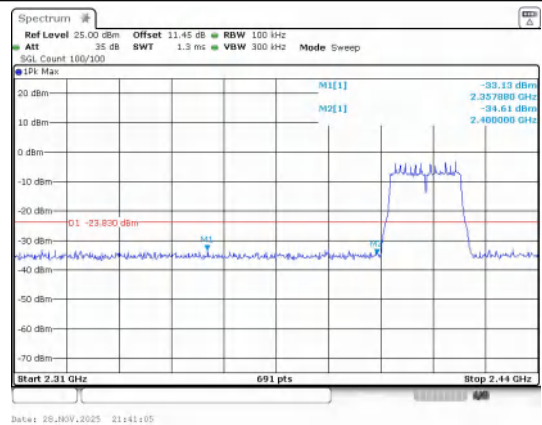
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IEEE 802.11g_Channel 11_20MHz_Antenna 1



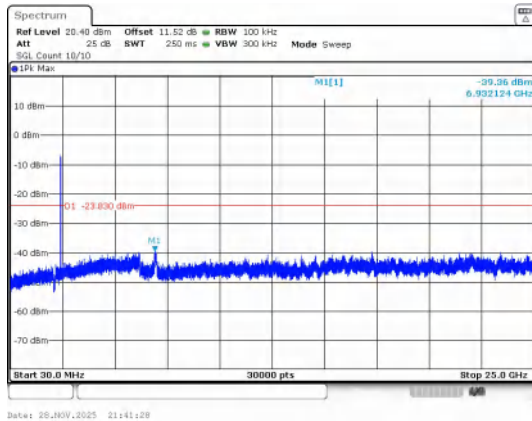
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IEEE 802.11g_Channel 11_20MHz_Antenna 1



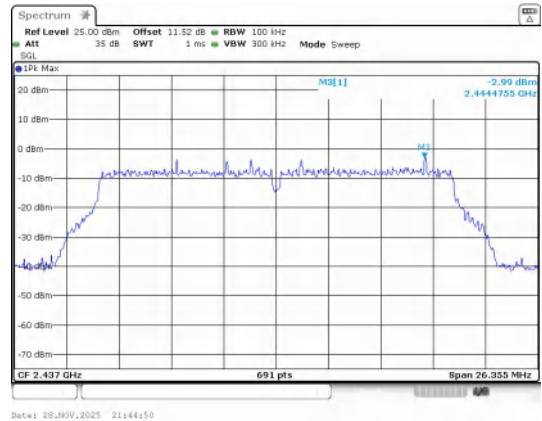
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 1



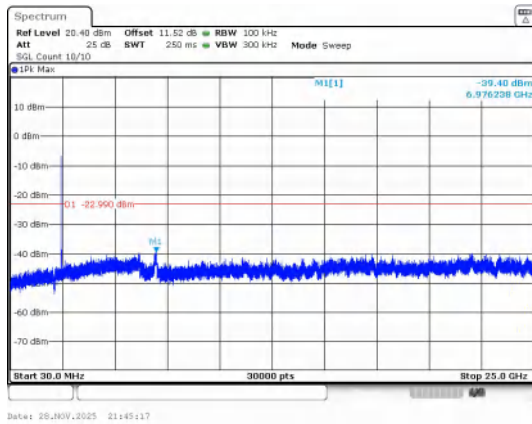
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 1



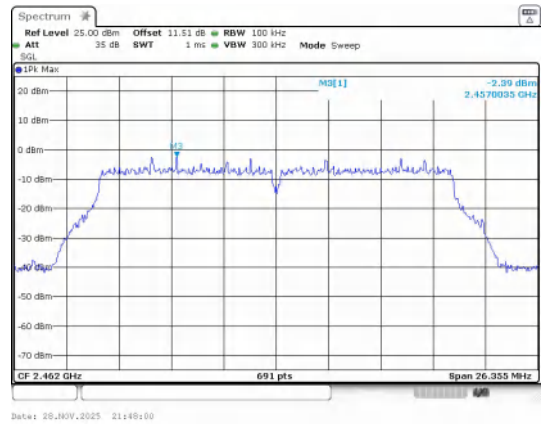
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IEEE 802.11n_Channel 1_20MHz_Antenna 1



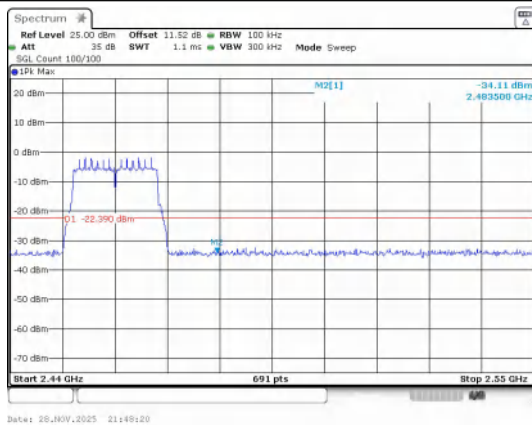
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 1



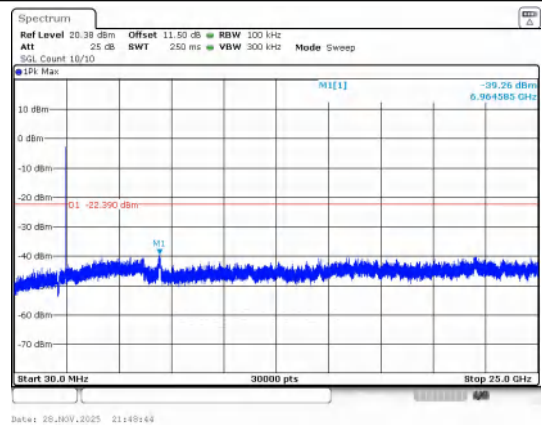
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IEEE 802.11n_Channel 6_20MHz_Antenna 1



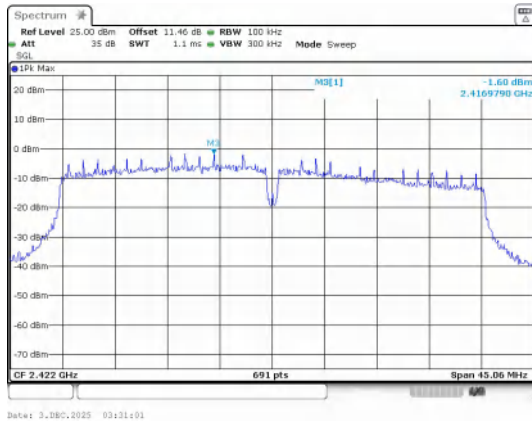
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 1



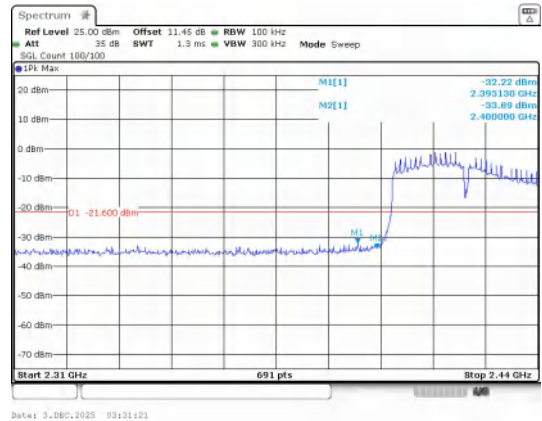
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 1



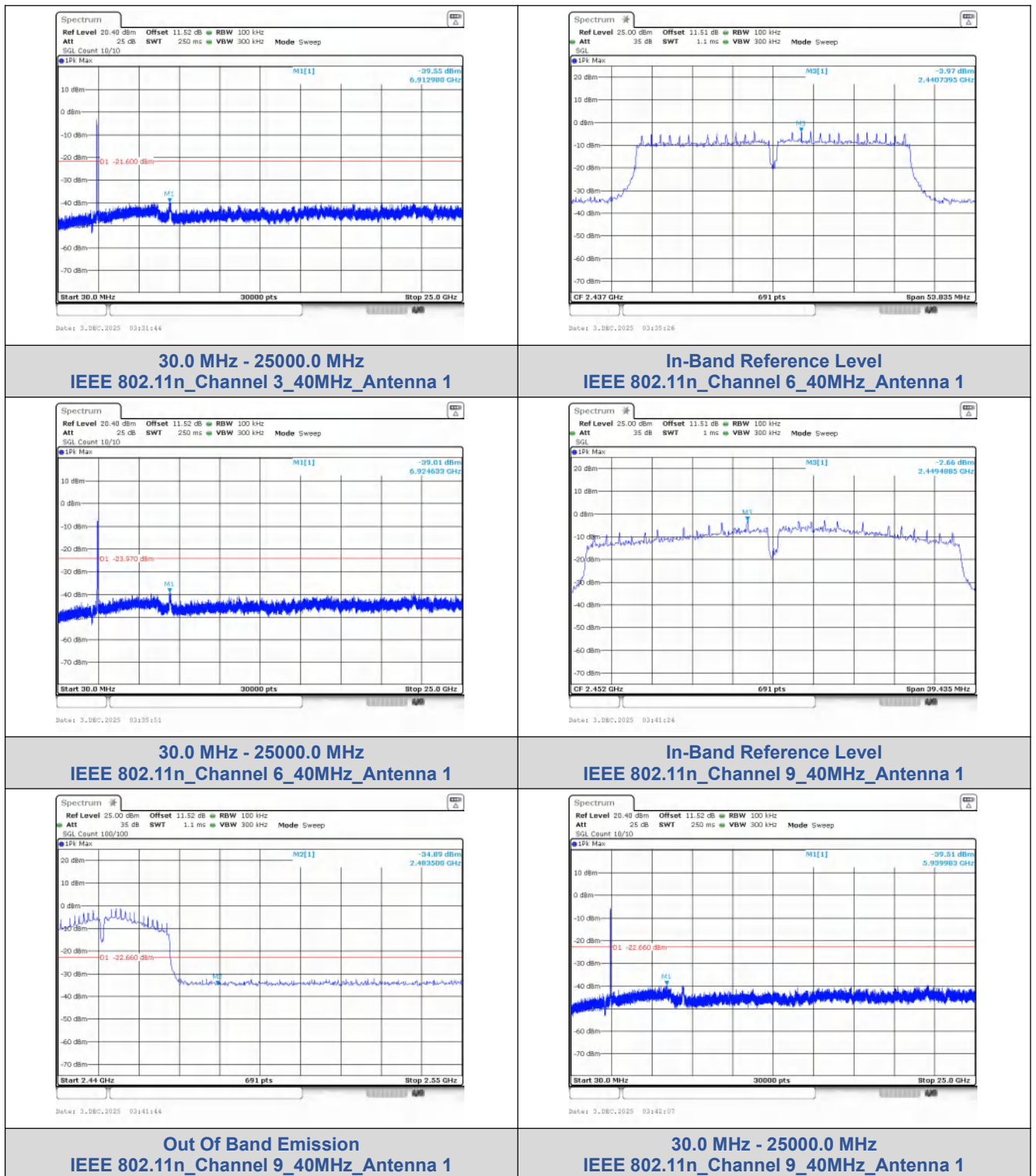
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 1



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 1



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 1



-----End of the report-----