

TEST REPORT

Report No.	CISRR25010702801
Project No.	CISR250107028
FCC ID	2BK5B-TP-P08
Applicant	SHENZHEN TOPPER VISION LTD
Address	301, Building C, NO.5966, Longhua Avenue, Dahe Community, Guanhu Street, Longhua district, Shenzhen, China
Manufacturer	SHENZHEN TOPPER VISION LTD
Address	301, Building C, NO.5966, Longhua Avenue, Dahe Community, Guanhu Street, Longhua district, Shenzhen, China
Product Name	WiFi Camera
Trade Mark	N/A
Model/Type reference	TP-P08
Listed Model(s)	TP-P01, TP-P02, TP-P03, TP-P04, TP-P05, TP-P06, TP-P07, TP-P09, TP-P10, TP-P11, TP-P12, TP-XXX, TP-XXXX, TP-XX-XXX, TP-XXXXXX (X=0,1,2-9 X=A,B,C-Z.)
Standard	47 CFR Part 15.247
Test date	January 10, 2025 to January 18, 2025
Issue date	January 21, 2025
Test result	Complied



Prepared by: Edward Wang



Approved by: Genry Long

The test results relate only to the tested samples.

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1. REPORT VERSION

Version No.	Issue date	Description
00	January 21, 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), 15.209, 15.205	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:	WiFi Camera
Trade Mark:	N/A
Model No.:	TP-P08
Listed Model(s):	TP-P01,TP-P02,TP-P03,TP-P04,TP-P05,TP-P06, TP-P07,TP-P09,TP-P10,TP-P11,TP-P12, TP-XXX,TP-XXXX,TP-XX-XXX,TP-XXXXXX(X=0,1,2-9 X=A,B,C-Z.)
Model difference:	The series model is the same product, there are not any different in material or color changed, with only different model names due to marketing sales.
Power supply:	DC 5V
Hardware version:	V1.0
Software version:	V1.0
Accessory unit information:	
Battery information:	N/A

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS 802.11g/802.11n(HT20/HT40): OFDM 802.11ax(HT20/HT40): OFDMA
Operation frequency:	802.11b/802.11g/802.11n/802.11ax(HT20): 2412MHz~2462MHz 802.11n/802.11ax(HT40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n/802.11ax(HT20): 11 802.11n/802.11ax(HT40): 9
Channel separation:	5MHz
Antenna type:	External Antenna
Antenna gain:	2.38dBi

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.
- 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	/	/

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

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2412	2437	2462

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	802.11ax(HT20)	Keep the EUT in 802.11ax(HT20) transmitting mode at lowest, middle and highest channel.
TM6	802.11ax(HT40)	Keep the EUT in 802.11ax(HT40) transmitting mode at lowest, middle and highest channel.
TM7	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	Adapter	Guangdong Sangu Technology Co. Ltd	SG-0501000AU
2	Phone	Huawei	NZONE S7

4.4. Test sample information

Type	Sample No.
Engineer sample	CISR250107028-S01
Normal sample	CISR250107028-S02

4.5. Environmental conditions

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

4.6. 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	NSLK812 7	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

Emissions in non-restricted frequency bands 6dB Bandwidth Maximum Conducted Output Power Power Spectral Density						
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	WCSPM23040 5A	2025-01-08	2026-01-07

Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz) Band edge emissions (Radiated)						
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	TAP9K3G 40	AP23A806027 0	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP0101 8050	AP23A806028 0	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	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	VULB 9163	1463	2023-01-09	2026-01-08
8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	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	NSLK812 7	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP1804 0048	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	AT202104010 1-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 (2.38dBi), the directional gain of the antenna less than 6dBi. 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)

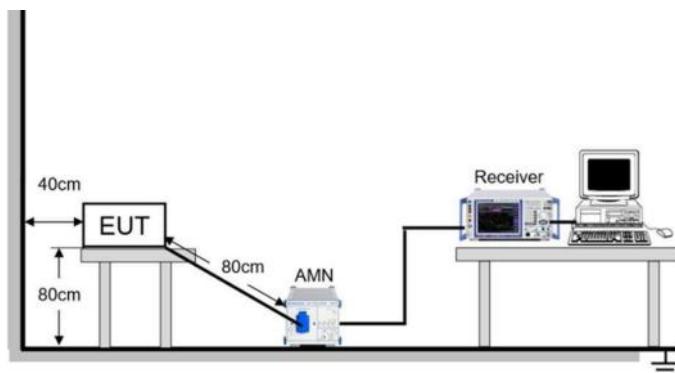
5.2.1. Conducted Emission at AC power line

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:	<ol style="list-style-type: none"> 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:	23.4 °C	Humidity:	55.6 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM7				
Final test mode:	TM7				

5.2.1.2. Test Setup Diagram

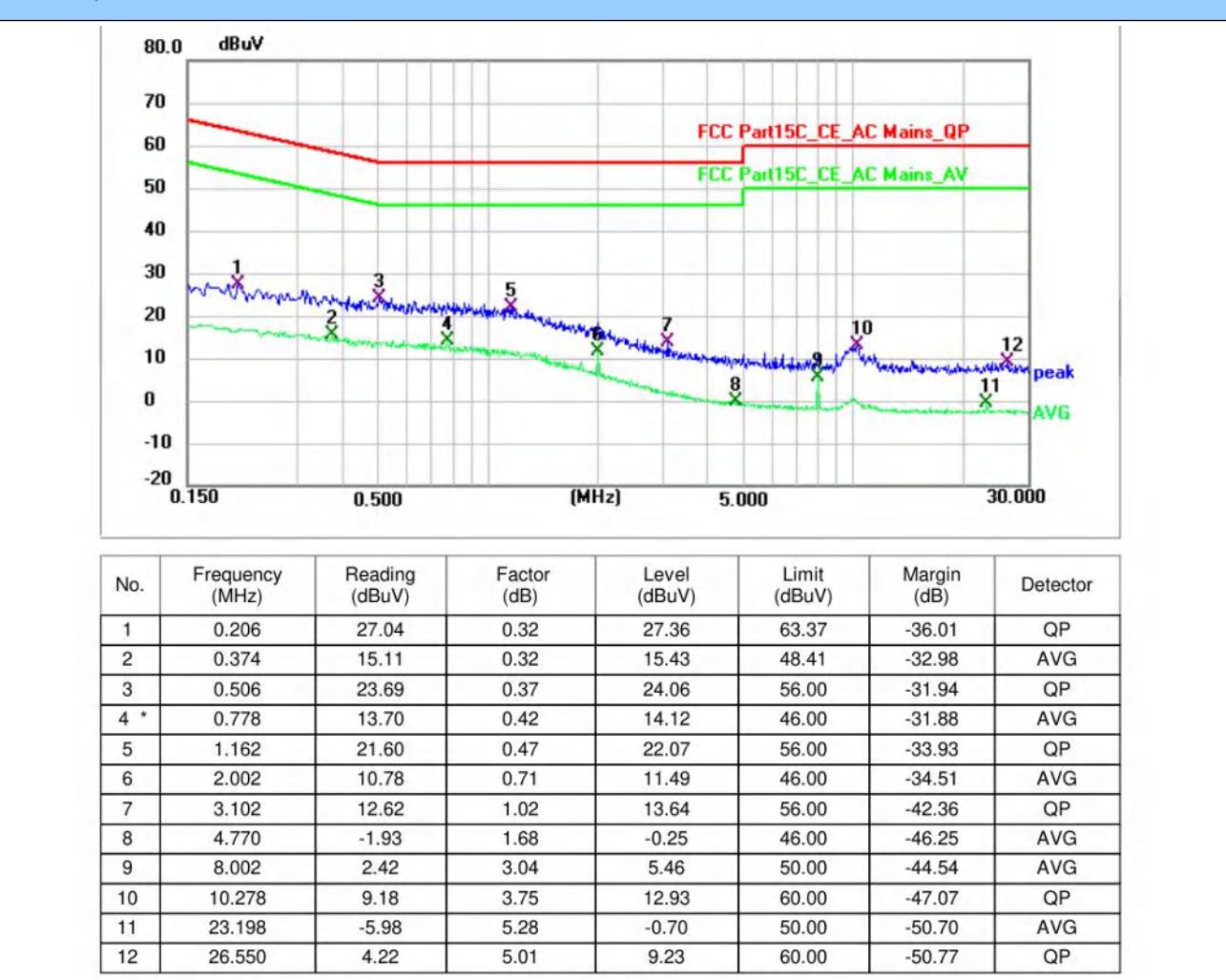


5.2.1.3. Test Result

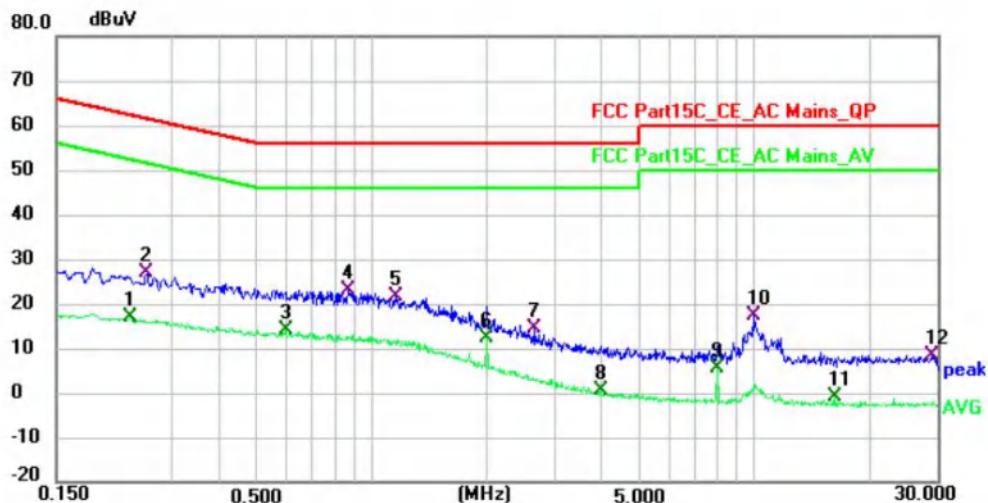
Pass

5.2.1.4. Test Data

Mode7 / Line: Line



Mode7 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.234	16.62	0.33	16.95	52.31	-35.36	AVG
2	0.258	26.49	0.34	26.83	61.50	-34.67	QP
3 *	0.594	13.64	0.39	14.03	46.00	-31.97	AVG
4	0.874	22.77	0.42	23.19	56.00	-32.81	QP
5	1.162	21.09	0.47	21.56	56.00	-34.44	QP
6	2.002	11.65	0.71	12.36	46.00	-33.64	AVG
7	2.666	13.62	0.89	14.51	56.00	-41.49	QP
8	4.002	-0.91	1.40	0.49	46.00	-45.51	AVG
9	8.002	2.35	3.06	5.41	50.00	-44.59	AVG
10	9.946	13.59	3.60	17.19	60.00	-42.81	QP
11	16.226	-6.72	5.77	-0.95	50.00	-50.95	AVG
12	29.142	3.66	4.87	8.53	60.00	-51.47	QP

Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin = Result - Limit

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:	<p>11.8.1 Option 1 The steps for the first option are as follows:</p> <ul style="list-style-type: none"> 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. <p>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.</p>

5.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	103 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:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	103 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:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	103 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), 15.209, 15.205
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:	22.1 °C	Humidity:	55.8 %	Atmospheric Pressure:	103 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.

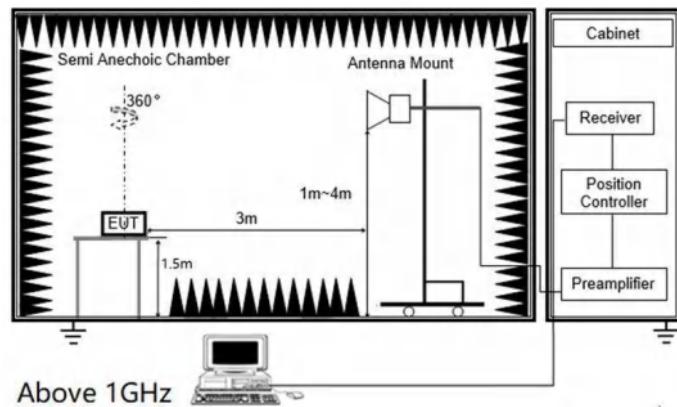
5.2.6. Radiated band edge emission

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
<p>** 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.</p> <p>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.</p>			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	<ol style="list-style-type: none"> 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 waspositioned 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 themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. 5. Use the following spectrum analyzer settings: <ul style="list-style-type: none"> 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), Averager level = Peak level + DCCF 		

5.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.5 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

5.2.6.2. Test Setup Diagram



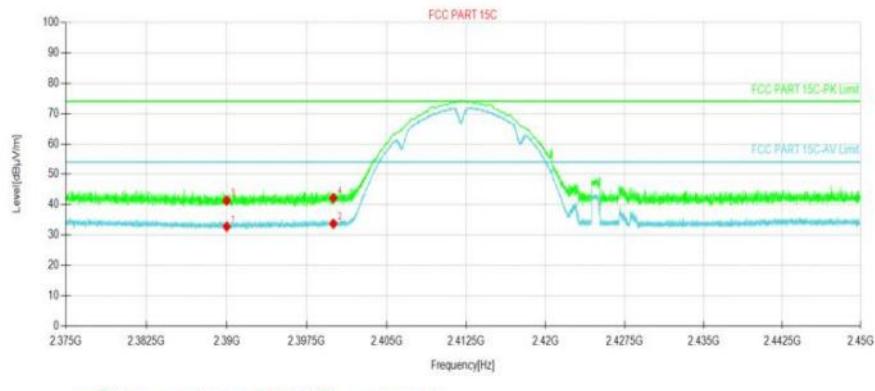
5.2.6.3. Test Result

Pass

5.2.6.4. Test Data

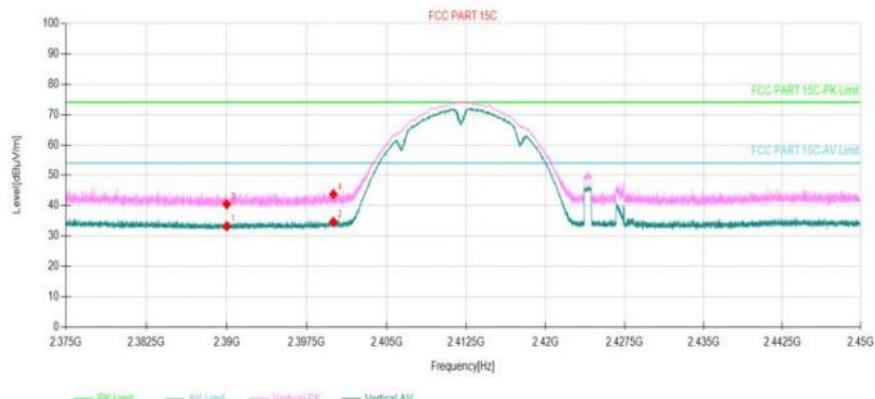
Have pre-scan all test mode, found 802.11b which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



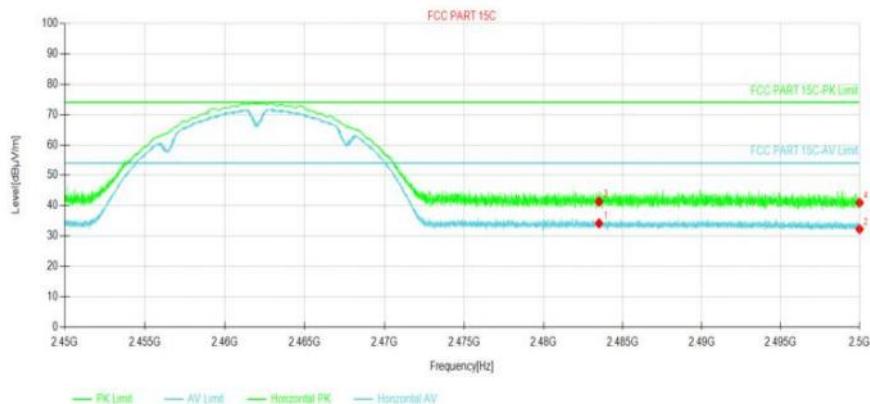
Suspected Data List								
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2390	26.19	32.75	6.56	54.00	21.25	Horizontal	PASS
2	2400.00	27.12	33.73	6.61	54.00	20.27	Horizontal	PASS
3	2390	34.76	41.32	6.56	74.00	32.68	Horizontal	PASS
4	2400.00	35.57	42.18	6.61	74.00	31.82	Horizontal	PASS

Mode1 / Polarization: Vertical / CH: L


Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2390	26.66	33.22	6.56	54.00	20.78	Vertical	PASS
2	2400.00	28.04	34.65	6.61	54.00	19.35	Vertical	PASS
3	2390	33.92	40.48	6.56	74.00	33.52	Vertical	PASS
4	2400.00	37.16	43.77	6.61	74.00	30.23	Vertical	PASS

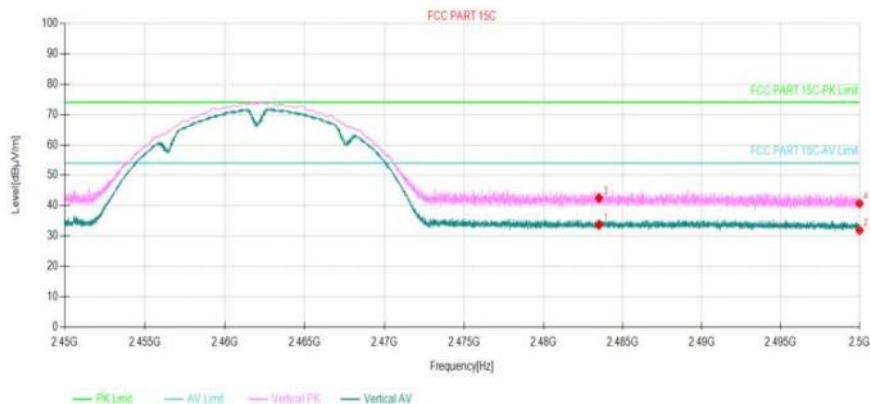
Mode1 / Polarization: Horizontal / CH: H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.5	27.61	34.17	6.56	54.00	19.83	Horizontal	PASS
2	2500	25.70	32.25	6.55	54.00	21.75	Horizontal	PASS
3	2483.5	34.77	41.33	6.56	74.00	32.67	Horizontal	PASS
4	2500	34.41	40.96	6.55	74.00	33.04	Horizontal	PASS

Mode1 / Polarization: Vertical / CH: H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.5	27.16	33.72	6.56	54.00	20.28	Vertical	PASS
2	2500	25.32	31.87	6.55	54.00	22.13	Vertical	PASS
3	2483.5	35.93	42.49	6.56	74.00	31.51	Vertical	PASS
4	2500	34.13	40.68	6.55	74.00	33.32	Vertical	PASS

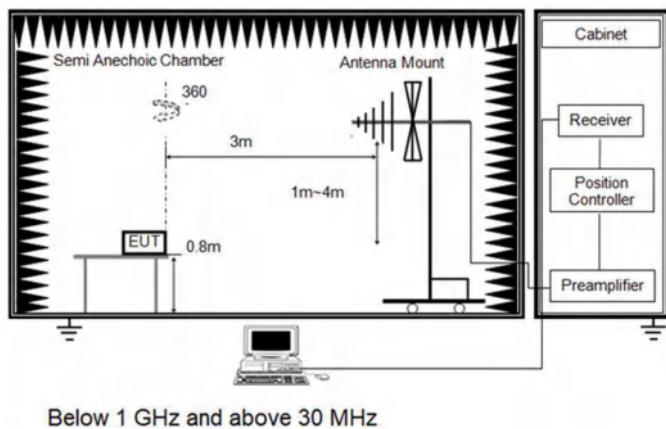
5.2.7. Radiated Spurious Emission (below 1GHz)

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
<p>** 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.</p> <p>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.</p>			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	<ol style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 °C	Humidity:	56.5 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6, TM7				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6, TM7				

5.2.7.2. Test Setup Diagram



5.2.7.3. Test Result

Pass

5.2.7.4. Test Data

Have pre-scan all test channel, found CH1(802.11b) which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.672	38.34	-29.17	9.17	40.00	-30.83	QP
2	65.343	39.24	-31.80	7.44	40.00	-32.56	QP
3	118.601	44.16	-31.93	12.23	43.50	-31.27	QP
4 *	216.783	55.71	-29.58	26.13	46.00	-19.87	QP
5	284.977	47.25	-27.67	19.58	46.00	-26.42	QP
6	912.862	37.41	-14.86	22.55	46.00	-23.45	QP

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.289	48.04	-31.90	16.14	40.00	-23.86	QP
2	53.318	46.32	-29.89	16.43	40.00	-23.57	QP
3	117.772	51.58	-31.84	19.74	43.50	-23.76	QP
4 *	155.910	54.25	-33.17	21.08	43.50	-22.42	QP
5	323.320	48.55	-26.62	21.93	46.00	-24.07	QP
6	906.482	38.10	-14.88	23.22	46.00	-22.78	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; Factor =Antenna Factor+ Cable Loss- Preamp Factor

3) Margin = Limit – Level

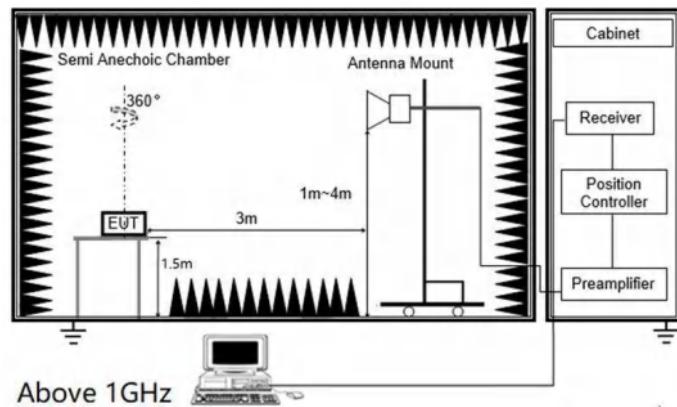
5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	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			3
<p>** 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.</p> <p>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.</p>			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	<ol style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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)Averager level = Peak level + DCCF 		

5.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.5 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6, TM7				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6, TM7				

5.2.8.2. Test Setup Diagram

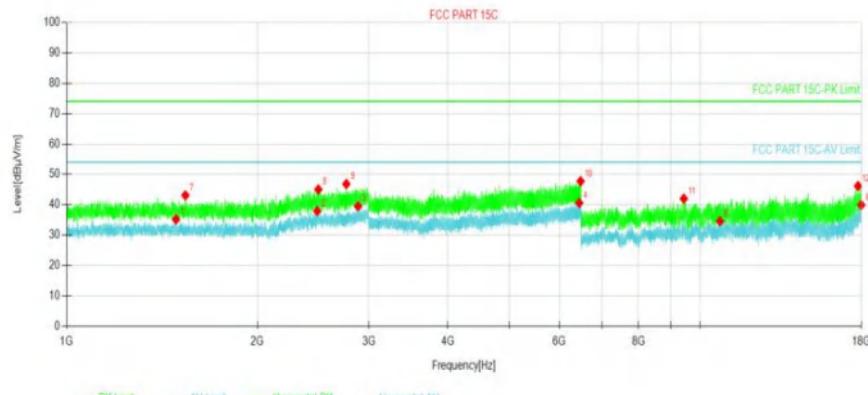


5.2.8.3. Test Result

Pass

5.2.8.4. Test Data

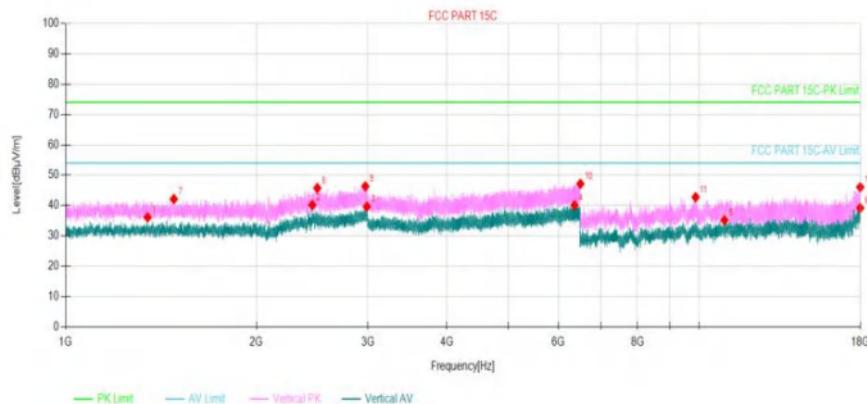
Mode1 / Polarization: Horizontal / CH: L



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1488.2	32.01	35.21	3.20	54.00	18.79	Horizontal	PASS
2	2487	30.32	37.96	7.64	54.00	16.04	Horizontal	PASS
3	2885.6	30.51	39.53	9.02	54.00	14.47	Horizontal	PASS
4	6446.8	34.06	40.59	6.53	54.00	13.41	Horizontal	PASS
5	10757.3	29.90	34.60	4.70	54.00	19.40	Horizontal	PASS
6	17981.6	26.53	39.94	13.41	54.00	14.06	Horizontal	PASS
7	1539.6	39.88	43.11	3.23	74.00	30.89	Horizontal	PASS
8	2496.8	37.32	45.04	7.72	74.00	28.96	Horizontal	PASS
9	2764.4	38.64	46.85	8.21	74.00	27.15	Horizontal	PASS
10	6478.65	41.23	47.76	6.53	74.00	26.24	Horizontal	PASS
11	9430.2	38.93	42.01	3.08	74.00	31.99	Horizontal	PASS
12	17768.8	33.47	46.18	12.71	74.00	27.82	Horizontal	PASS

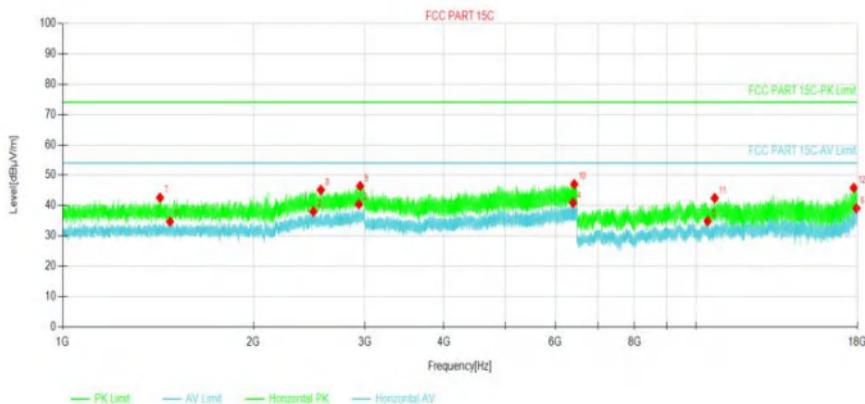
Mode1 / Polarization: Vertical / CH: L



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1346.8	33.46	36.11	2.65	54.00	17.89	Vertical	PASS
2	2451.8	32.78	40.16	7.38	54.00	13.84	Vertical	PASS
3	2989.4	29.76	39.64	9.88	54.00	14.36	Vertical	PASS
4	6360.35	33.83	40.10	6.27	54.00	13.90	Vertical	PASS
5	10973.5	30.59	35.18	4.59	54.00	18.82	Vertical	PASS
6	17979.3	25.81	39.21	13.40	54.00	14.79	Vertical	PASS
7	1481.8	38.97	42.15	3.18	74.00	31.85	Vertical	PASS
8	2496.8	38.05	45.77	7.72	74.00	28.23	Vertical	PASS
9	2972.8	36.60	46.34	9.74	74.00	27.66	Vertical	PASS
10	6498.25	40.62	47.15	6.53	74.00	26.85	Vertical	PASS
11	9878.7	39.34	42.76	3.42	74.00	31.24	Vertical	PASS
12	17981.6	32.64	46.05	13.41	74.00	27.95	Vertical	PASS

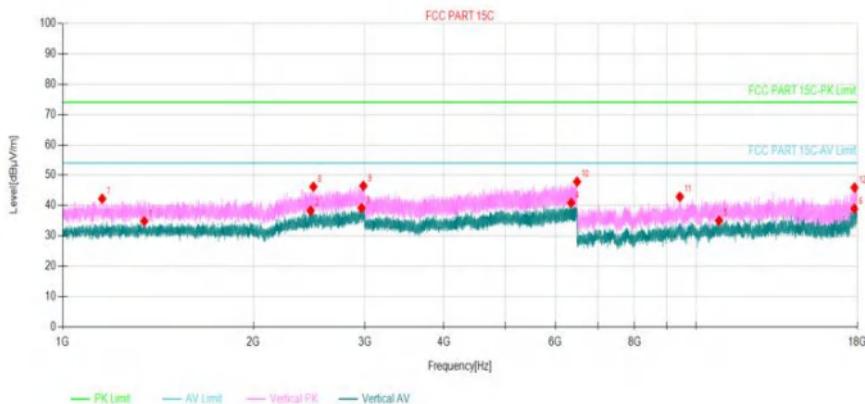
Mode1 / Polarization: Horizontal / CH: M



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1477.2	31.55	34.72	3.17	54.00	19.28	Horizontal	PASS
2	2487.8	30.42	38.07	7.65	54.00	15.93	Horizontal	PASS
3	2936.2	30.98	40.41	9.43	54.00	13.59	Horizontal	PASS
4	6396.75	34.40	40.91	6.51	54.00	13.09	Horizontal	PASS
5	10436.4	30.79	34.87	4.08	54.00	19.13	Horizontal	PASS
6	17931	26.02	39.11	13.09	54.00	14.89	Horizontal	PASS
7	1424.6	39.57	42.58	3.01	74.00	31.42	Horizontal	PASS
8	2556.8	37.66	45.13	7.47	74.00	28.87	Horizontal	PASS
9	2950	36.87	46.42	9.55	74.00	27.58	Horizontal	PASS
10	6424.75	40.52	47.05	6.53	74.00	26.95	Horizontal	PASS
11	10707.8	37.97	42.45	4.48	74.00	31.55	Horizontal	PASS
12	17753.9	33.31	45.82	12.51	74.00	28.18	Horizontal	PASS

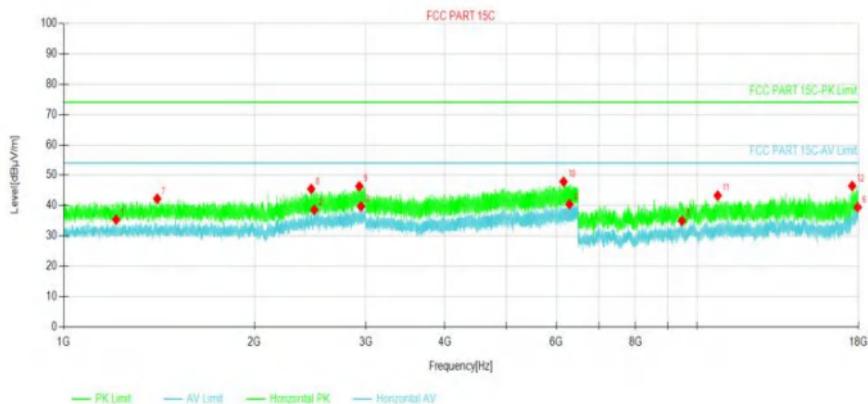
Mode1 / Polarization: Vertical / CH: M



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1345.6	32.23	34.87	2.64	54.00	19.13	Vertical	PASS
2	2463.4	30.82	38.29	7.47	54.00	15.71	Vertical	PASS
3	2964.6	29.53	39.20	9.67	54.00	14.80	Vertical	PASS
4	6353.7	34.62	40.85	6.23	54.00	13.15	Vertical	PASS
5	10876.9	30.25	35.04	4.79	54.00	18.96	Vertical	PASS
6	17793	25.92	38.96	13.04	54.00	15.04	Vertical	PASS
7	1154.4	40.78	42.24	1.46	74.00	31.76	Vertical	PASS
8	2488.2	38.56	46.21	7.65	74.00	27.79	Vertical	PASS
9	2984	36.66	46.49	9.83	74.00	27.51	Vertical	PASS
10	6490.2	41.32	47.85	6.53	74.00	26.15	Vertical	PASS
11	9432.5	39.81	42.89	3.08	74.00	31.11	Vertical	PASS
12	17805.6	32.78	45.90	13.12	74.00	28.10	Vertical	PASS

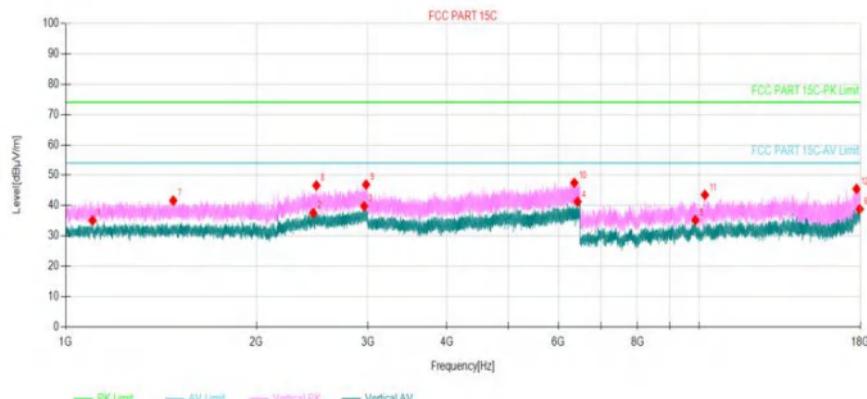
Mode1 / Polarization: Horizontal / CH: H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1210	33.54	35.37	1.83	54.00	18.63	Horizontal	PASS
2	2488.2	30.92	38.57	7.65	54.00	15.43	Horizontal	PASS
3	2948.2	30.20	39.73	9.53	54.00	14.27	Horizontal	PASS
4	6291.75	34.56	40.42	5.86	54.00	13.58	Horizontal	PASS
5	9469.3	31.83	34.96	3.13	54.00	19.04	Horizontal	PASS
6	17950.5	26.22	39.44	13.22	54.00	14.56	Horizontal	PASS
7	1405	39.30	42.25	2.95	74.00	31.75	Horizontal	PASS
8	2460	38.03	45.47	7.44	74.00	28.53	Horizontal	PASS
9	2930	36.97	46.35	9.38	74.00	27.65	Horizontal	PASS
10	6157.7	42.33	47.86	5.53	74.00	26.14	Horizontal	PASS
11	10786.0	38.46	43.29	4.83	74.00	30.71	Horizontal	PASS
12	17586	34.24	46.48	12.24	74.00	27.52	Horizontal	PASS

Mode1 / Polarization: Vertical / CH: H



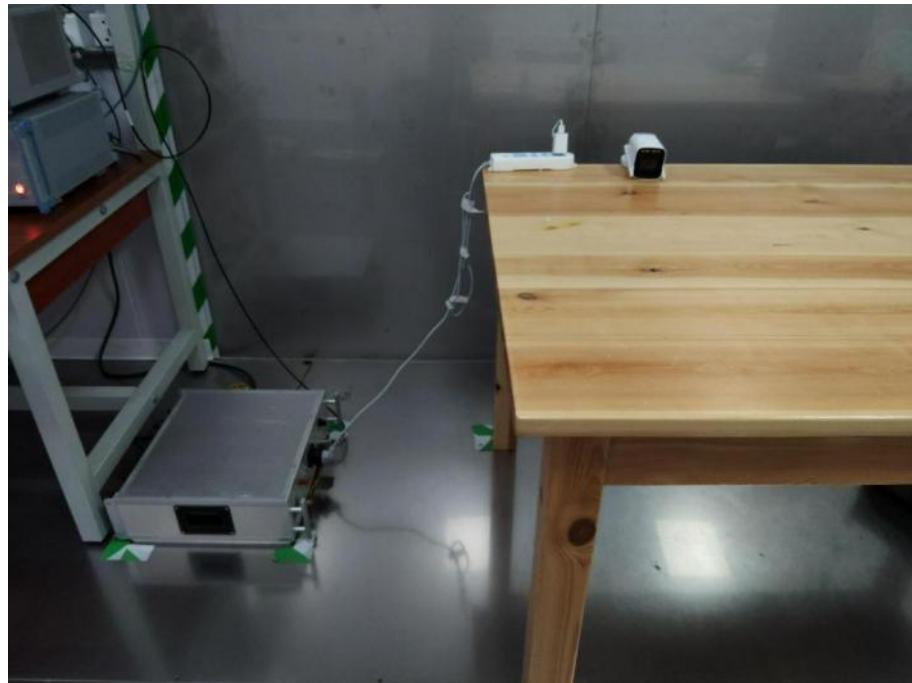
Suspected Data List								
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	1102.8	33.99	35.10	1.11	54.00	18.90	Vertical	PASS
2	2460.4	30.09	37.53	7.44	54.00	16.47	Vertical	PASS
3	2960.4	30.16	39.79	9.63	54.00	14.21	Vertical	PASS
4	6432.45	34.72	41.25	6.53	54.00	12.75	Vertical	PASS
5	9872.95	31.79	35.20	3.41	54.00	18.80	Vertical	PASS
6	17948.2	25.63	38.83	13.20	54.00	15.17	Vertical	PASS
7	1478.4	38.48	41.65	3.17	74.00	32.35	Vertical	PASS
8	2488.2	38.98	46.63	7.65	74.00	27.37	Vertical	PASS
9	2981.6	37.10	46.91	9.81	74.00	27.09	Vertical	PASS
10	6357.55	41.22	47.47	6.25	74.00	26.53	Vertical	PASS
11	10221.4	39.78	43.52	3.74	74.00	30.48	Vertical	PASS
12	17740.1	33.16	45.49	12.33	74.00	28.51	Vertical	PASS

Note:

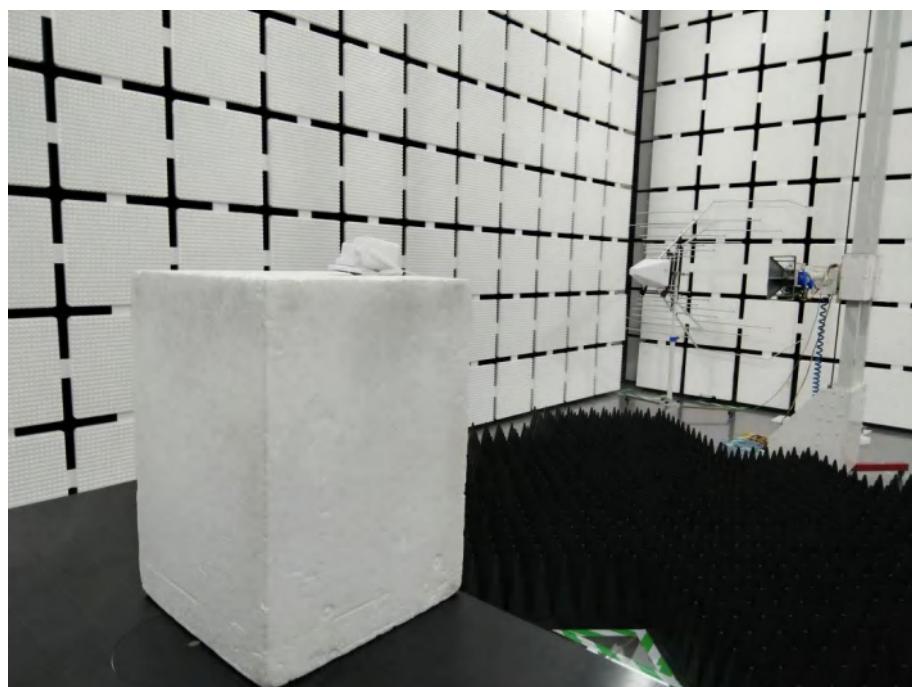
- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit – Level
- 3) Average measurement was not performed if peak level is lower than average limit (54dB μ V/m) for above 1GHz.

6. TEST SETUP PHOTOS

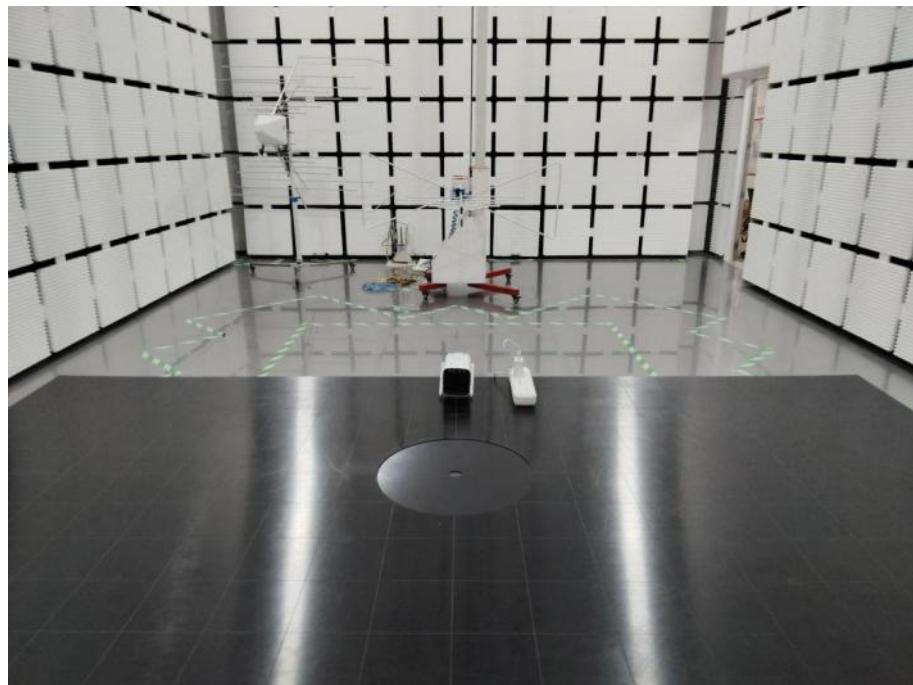
Conducted Emission at AC power line



Radiated band edge emission
Radiated Spurious Emission (Above 1GHz)

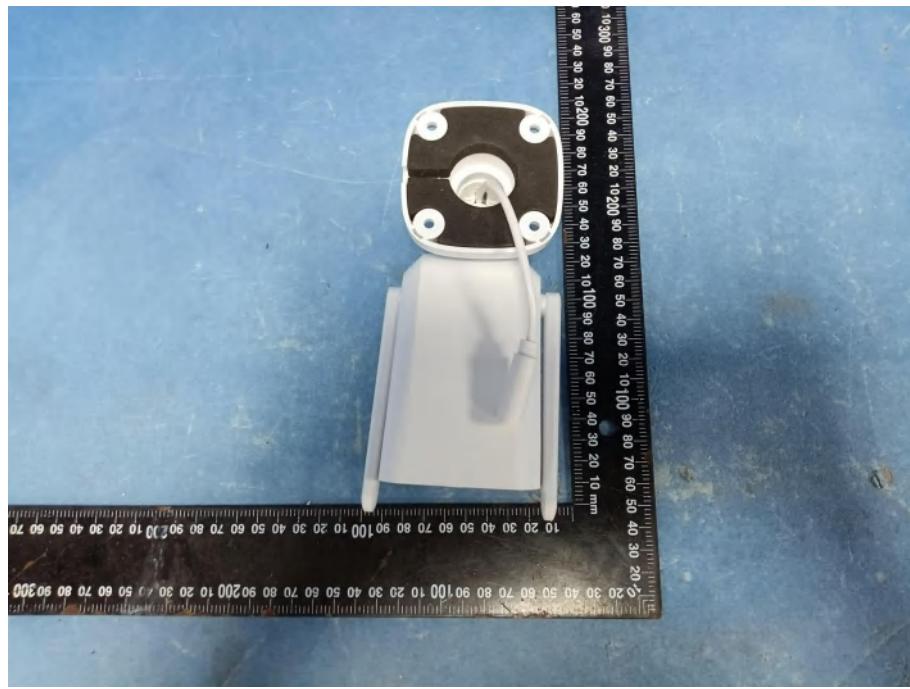


Radiated Spurious Emission (below 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS

7.1. External Photos

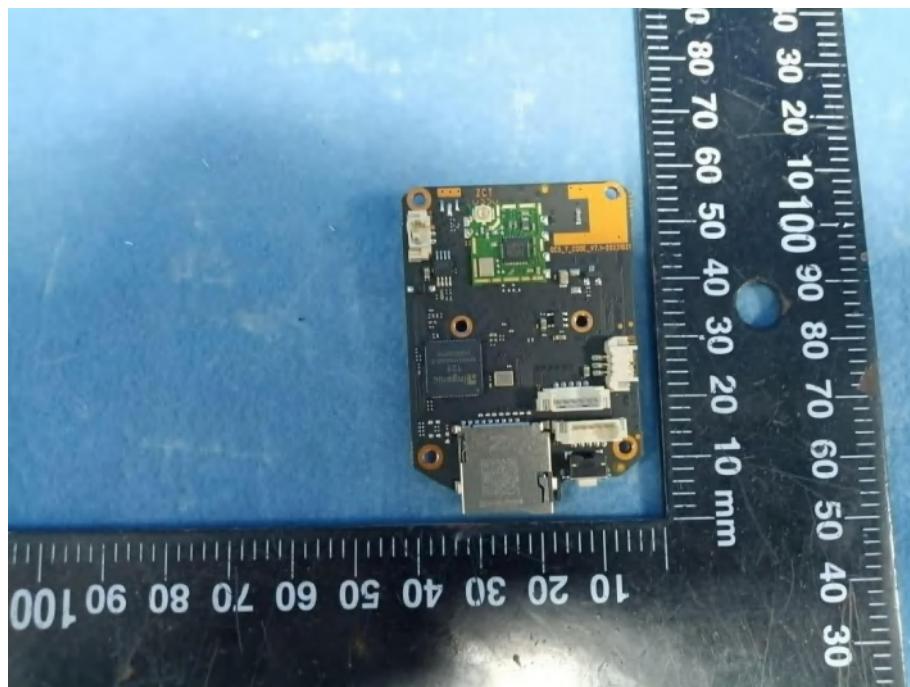
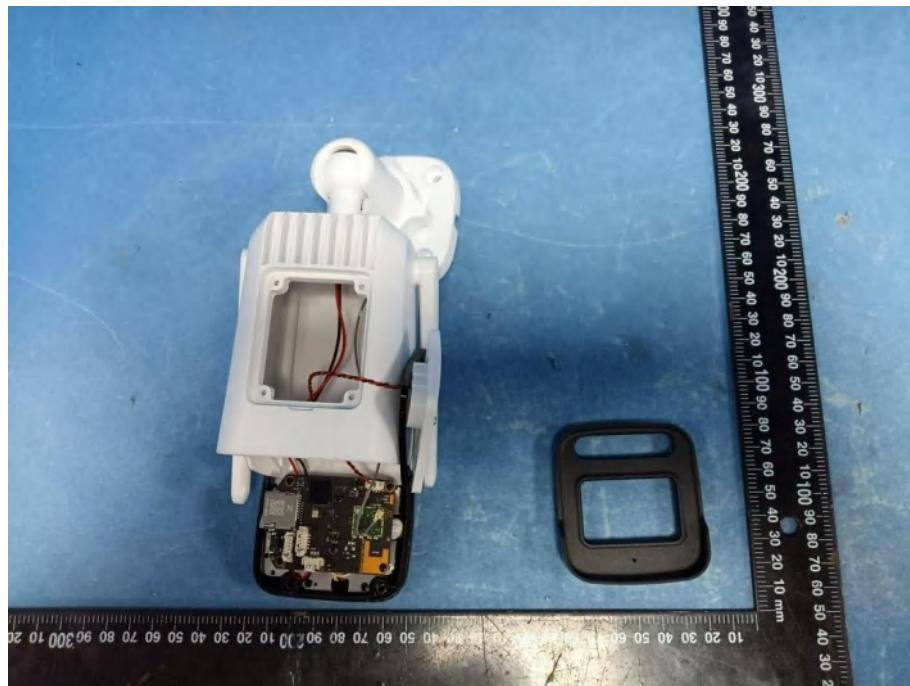


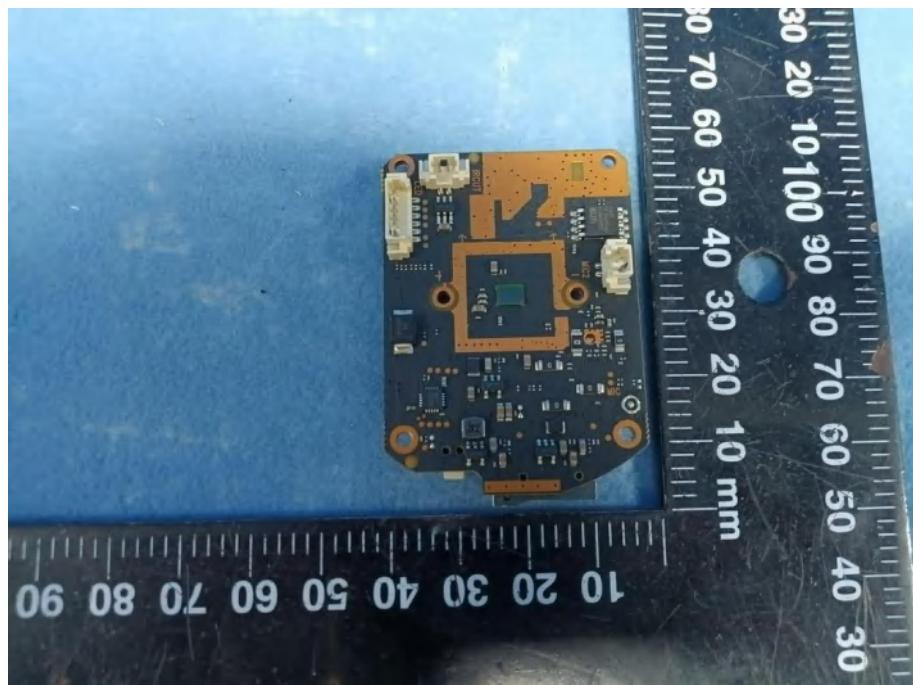




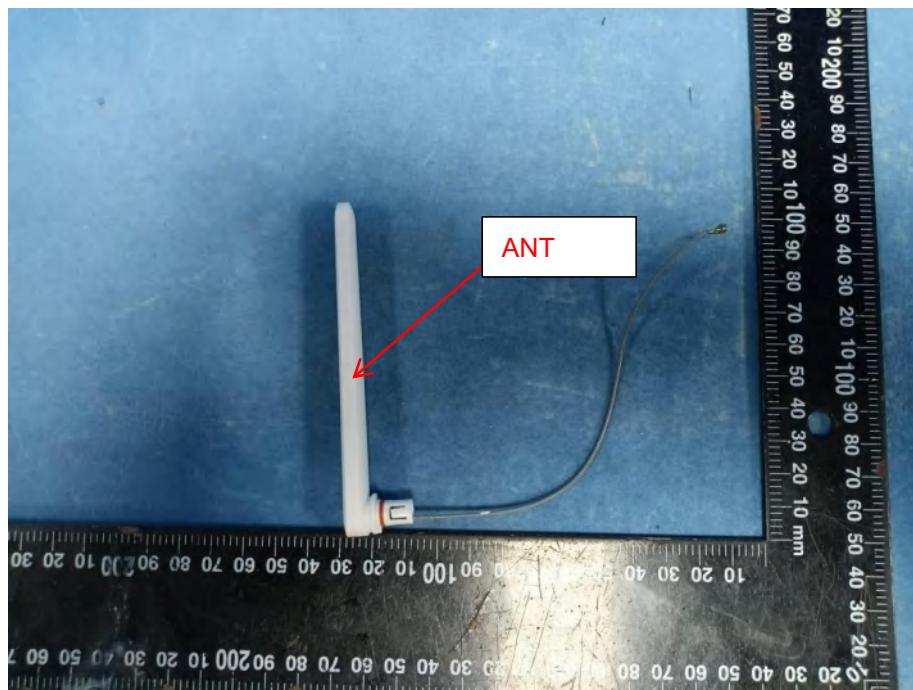
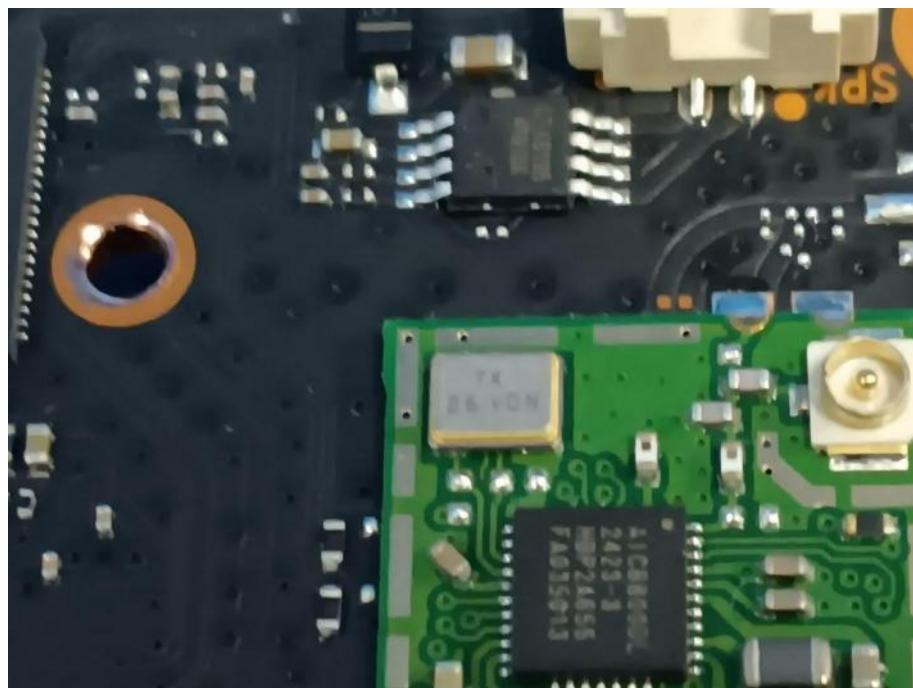


7.2. Internal Photos









8. Appendix Report

Appendix Report

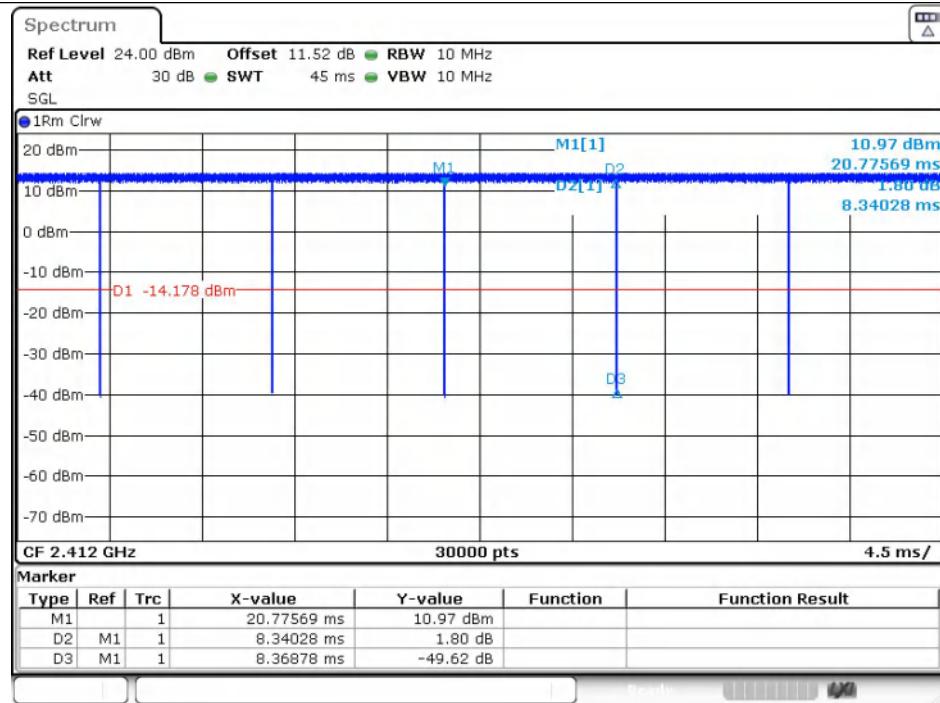
Report No.:	CISRR250107028
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

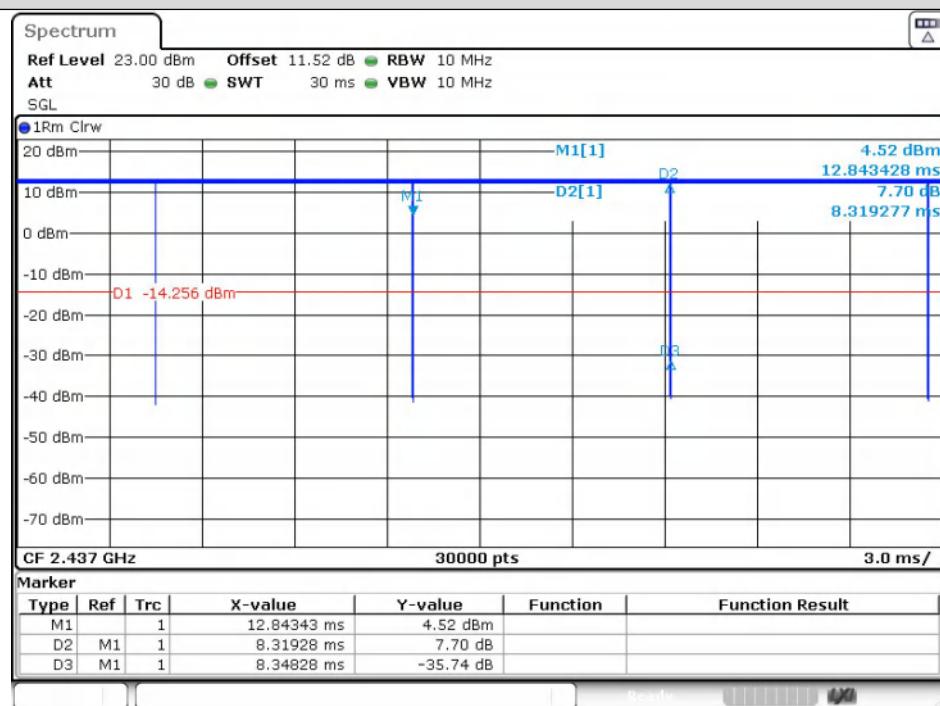
Test Result

Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	N/A	1	8.340	8.369	99.66	0.9966	0.0148	0.1199
		6			8.319	8.348	99.65	0.9965	0.0152	0.1202
		11			8.319	8.348	99.65	0.9965	0.0152	0.1202
		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	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11g	MCS 0	1	SU	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			1.293	1.327	97.44	0.9744	0.1126	0.7734
		3			0.650	0.684	94.94	0.9494	0.2255	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
IEEE 802.11ax_20	MCS 0	1	SU	1	0.140	0.352	39.76	0.3976	4.0055	7.1429
		6			0.140	0.352	39.76	0.3976	4.0055	7.1429
		11			0.140	0.352	39.76	0.3976	4.0055	7.1429
		3			0.099	0.311	31.85	0.3185	4.9689	10.1010
		6			0.099	0.312	31.83	0.3183	4.9716	10.1010
		9			0.099	0.312	31.83	0.3183	4.9716	10.1010
IEEE 802.11ax_40	MCS 0	1	SU	1	0.140	0.352	39.76	0.3976	4.0055	7.1429
		6			0.140	0.352	39.76	0.3976	4.0055	7.1429
		11			0.140	0.352	39.76	0.3976	4.0055	7.1429
		3			0.099	0.311	31.85	0.3185	4.9689	10.1010
		6			0.099	0.312	31.83	0.3183	4.9716	10.1010
		9			0.099	0.312	31.83	0.3183	4.9716	10.1010

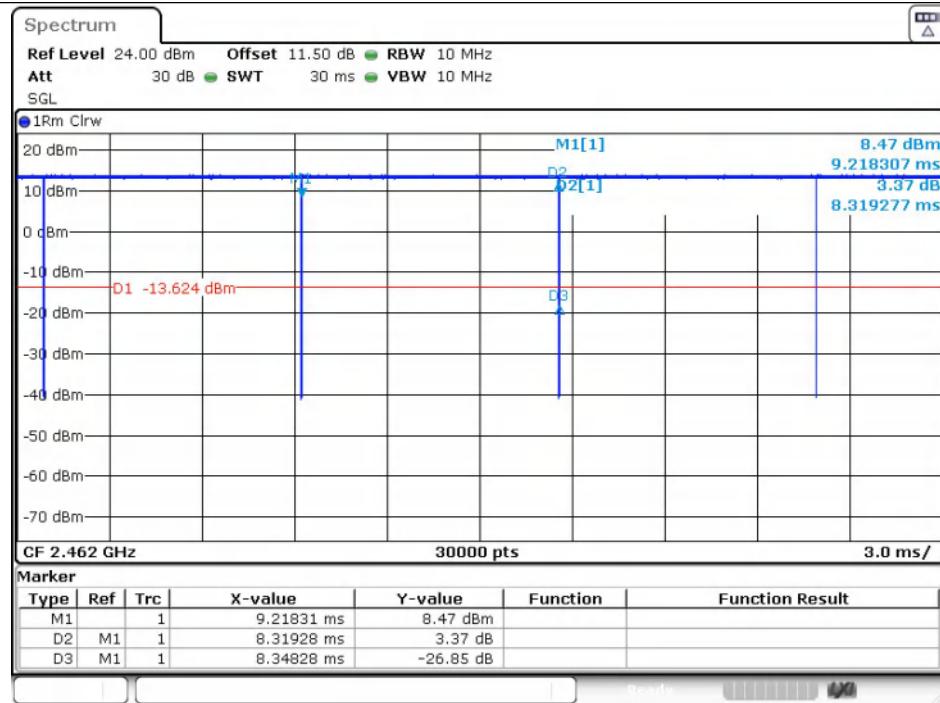
Test Graphs



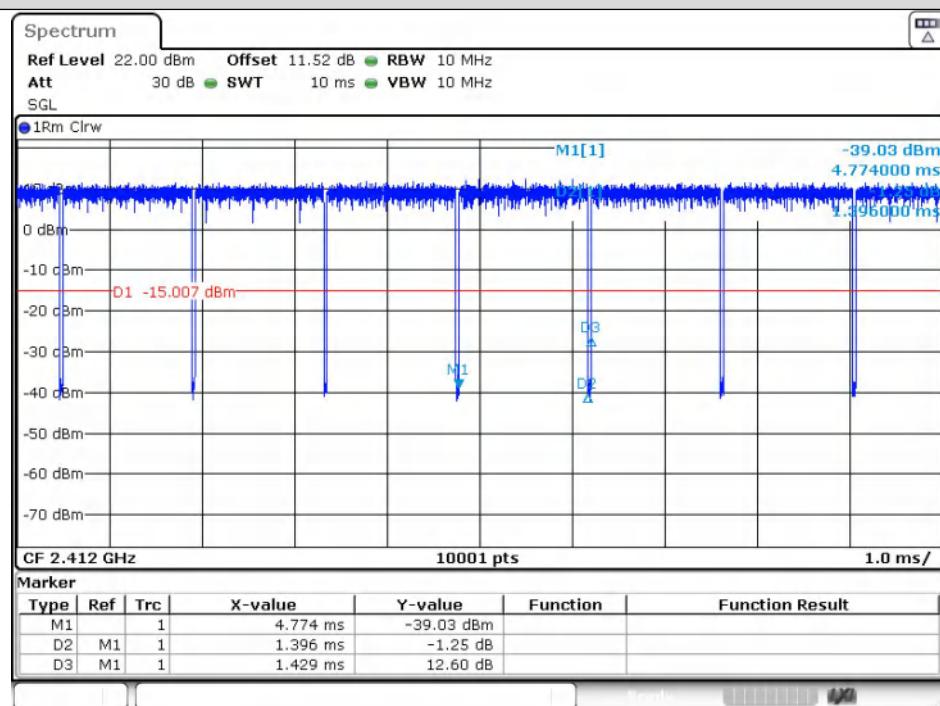
IEEE 802.11b_20MHz_Channel 1



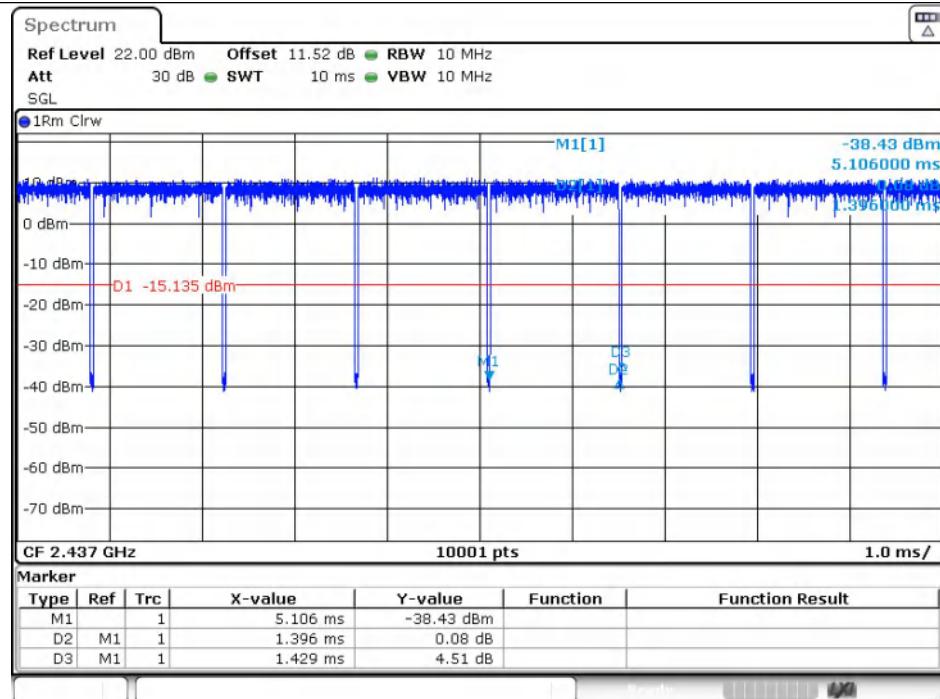
IEEE 802.11b_20MHz_Channel 6



IEEE 802.11b_20MHz_Channel 11

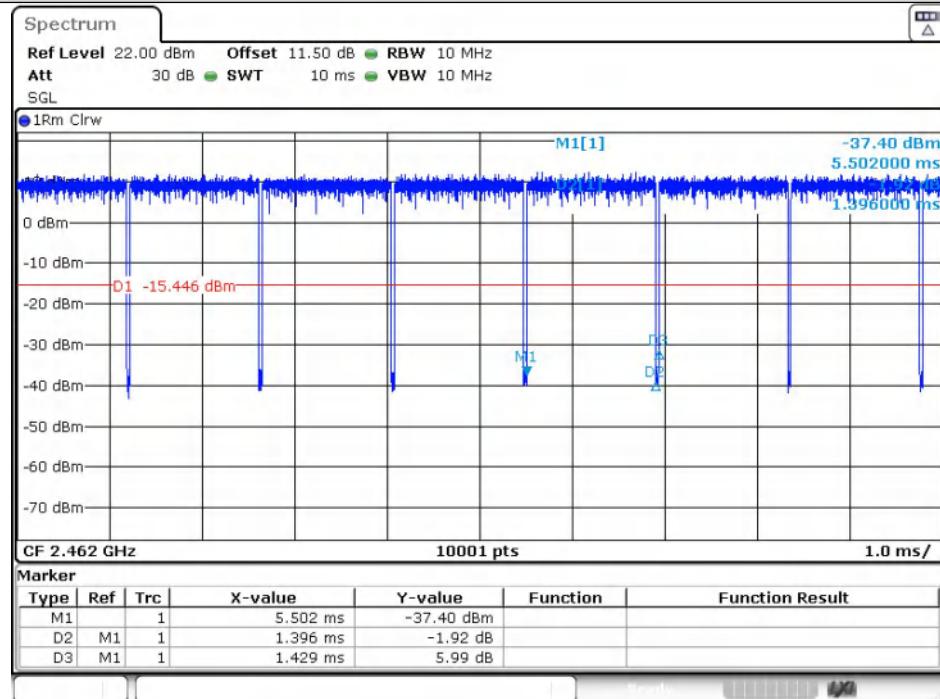


IEEE 802.11g_20MHz_Channel 1



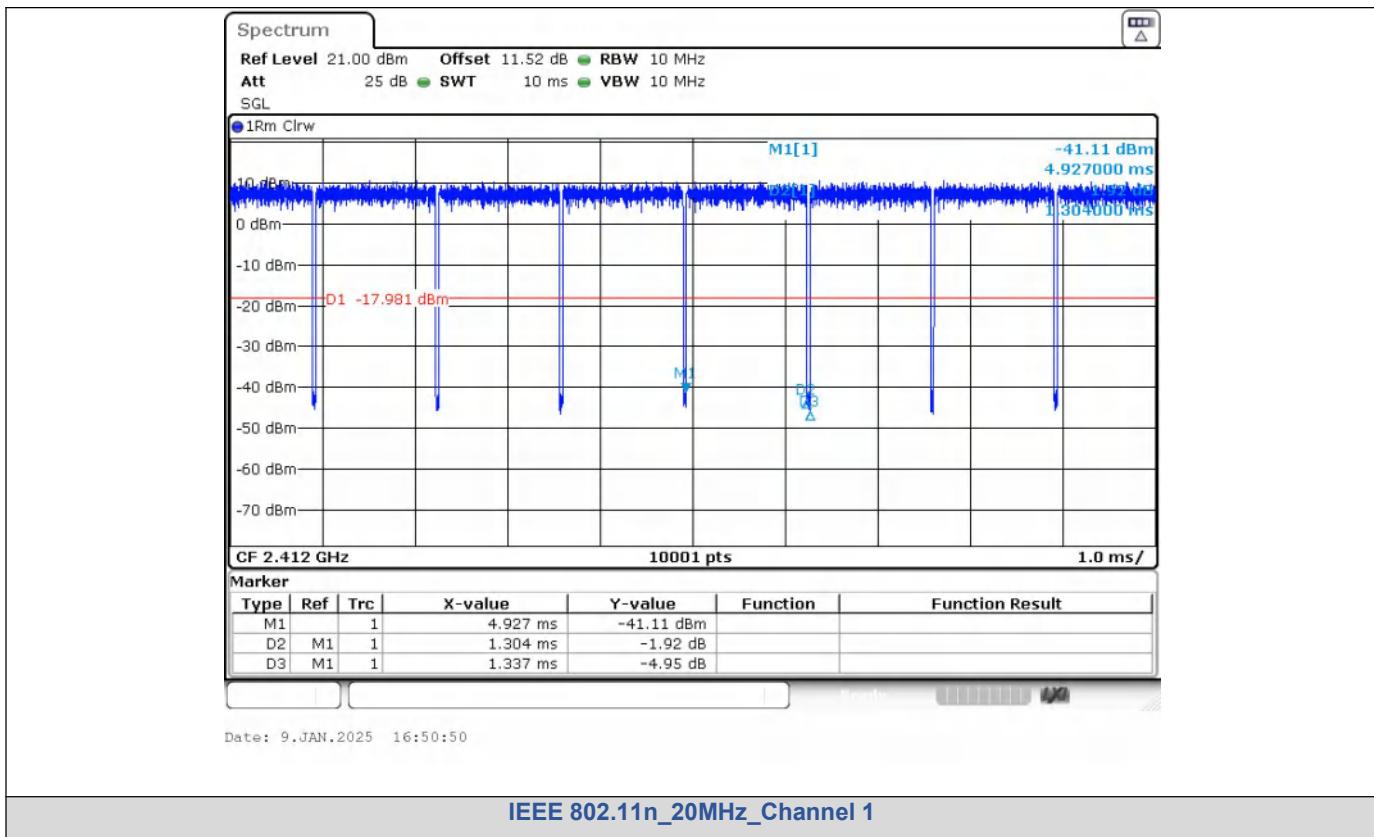
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IEEE 802.11g_20MHz_Channel 6

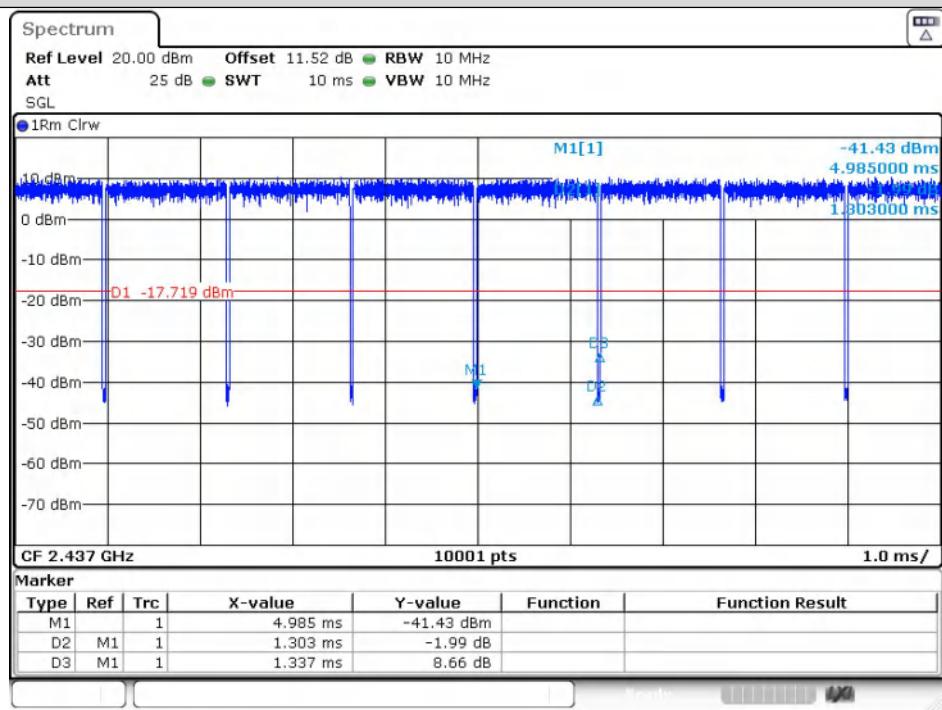


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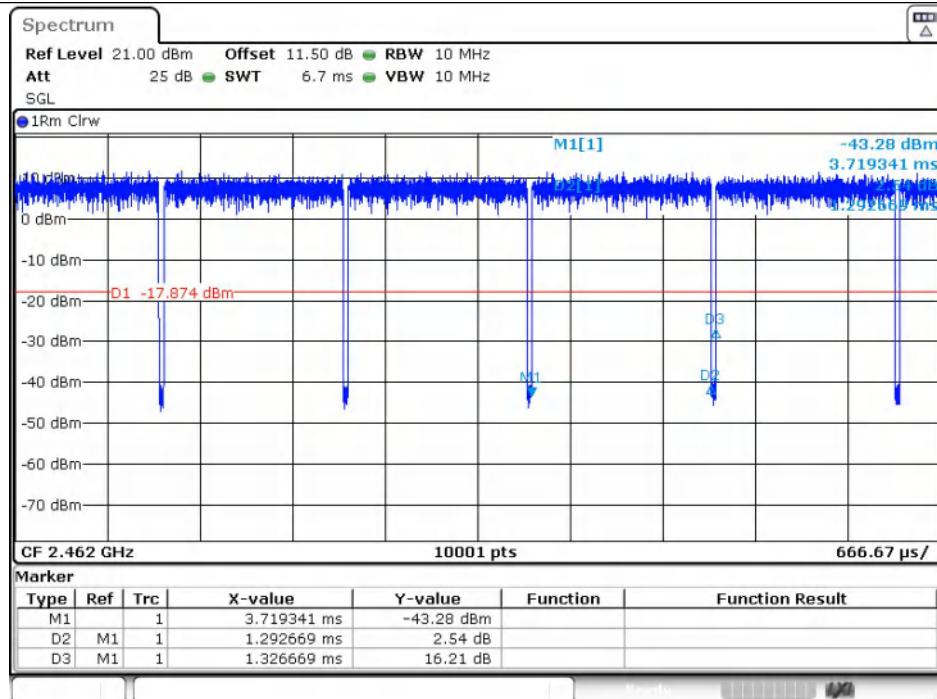
IEEE 802.11g_20MHz_Channel 11



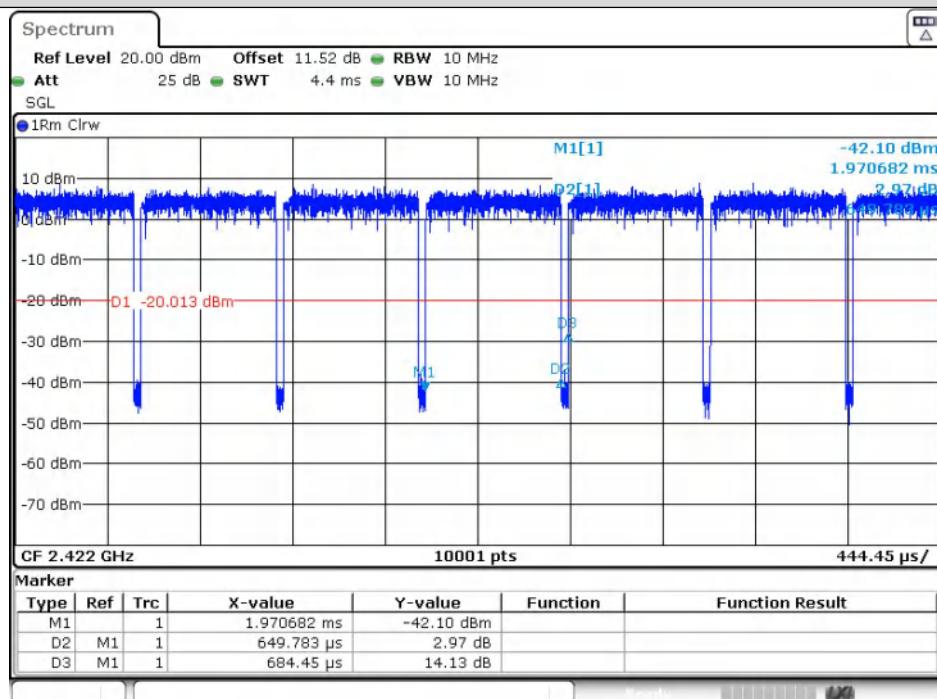
IEEE 802.11n_20MHz_Channel 1



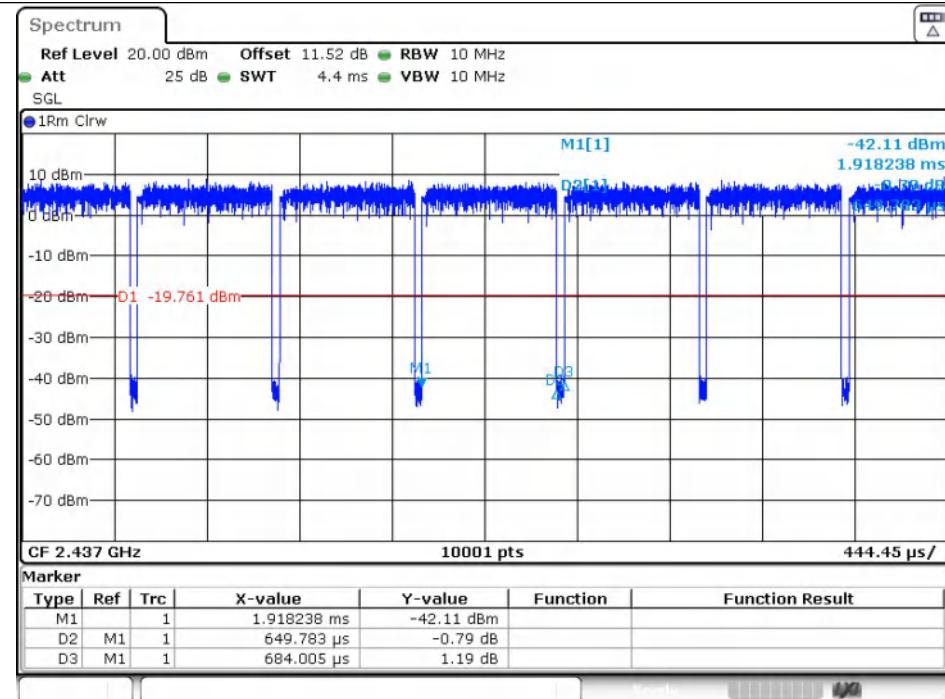
IEEE 802.11n_20MHz_Channel 6



IEEE 802.11n_20MHz_Channel 11

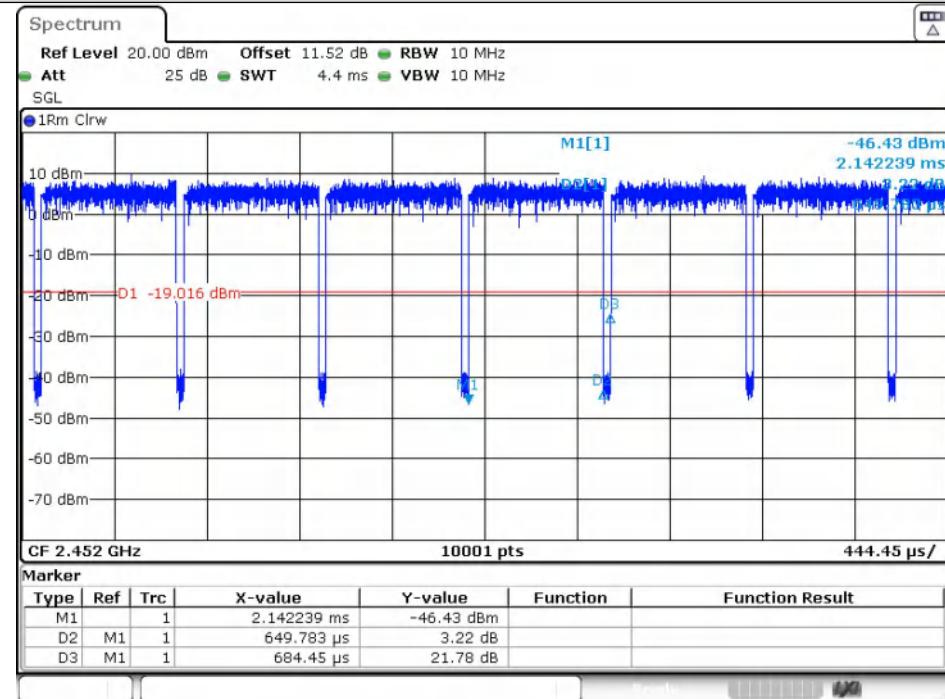


IEEE 802.11n_40MHz_Channel 3



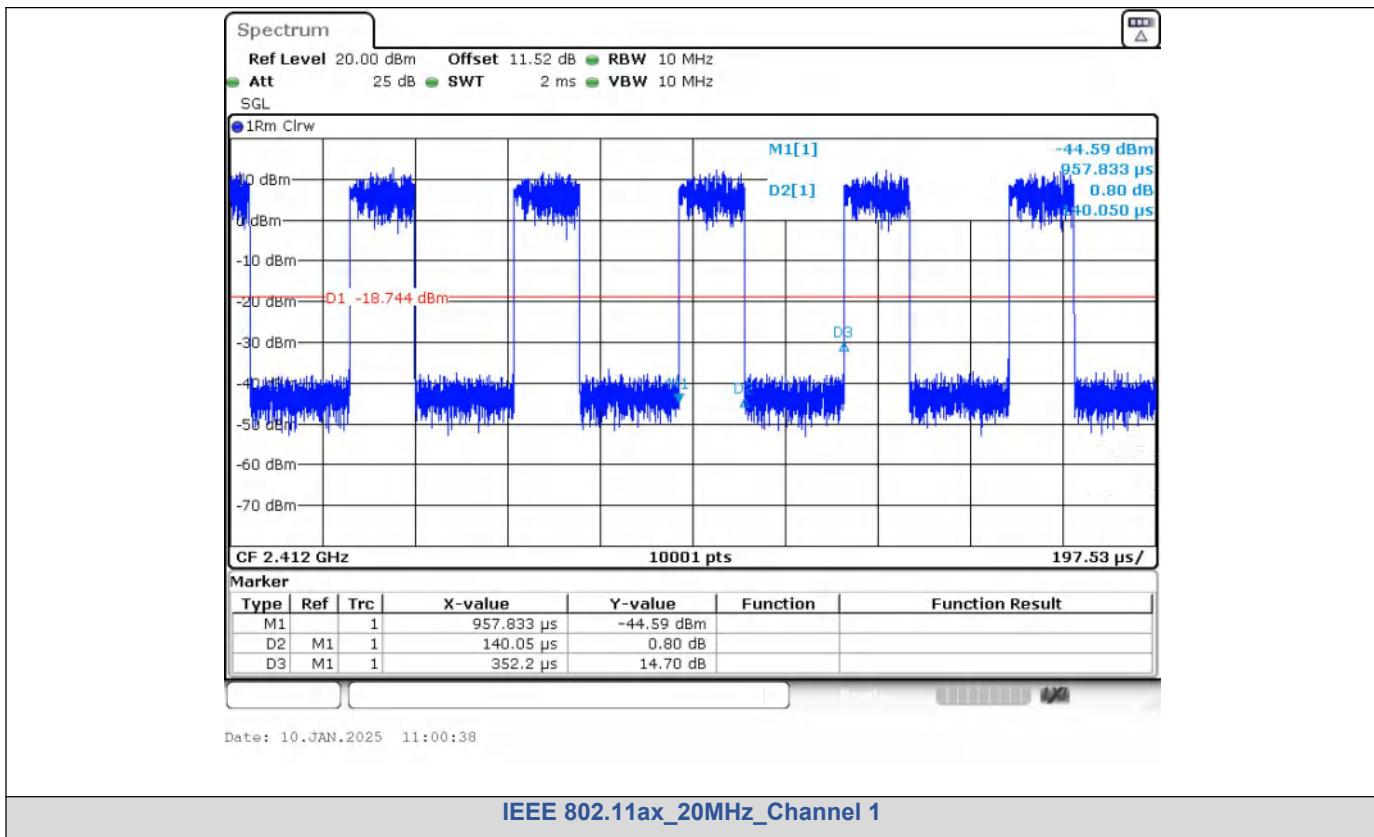
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IEEE 802.11n_40MHz_Channel 6

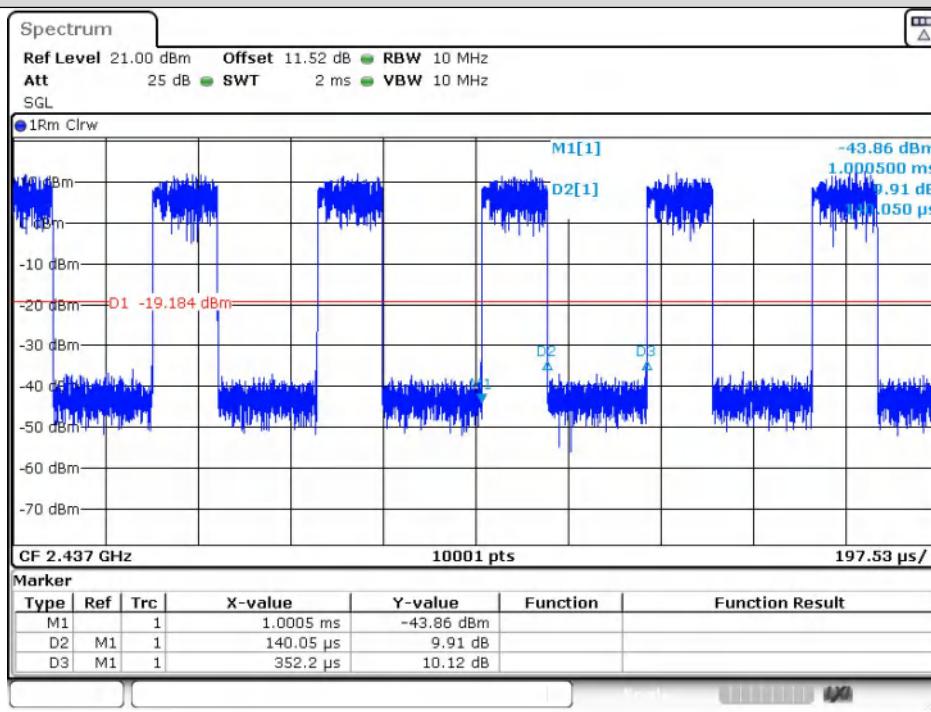


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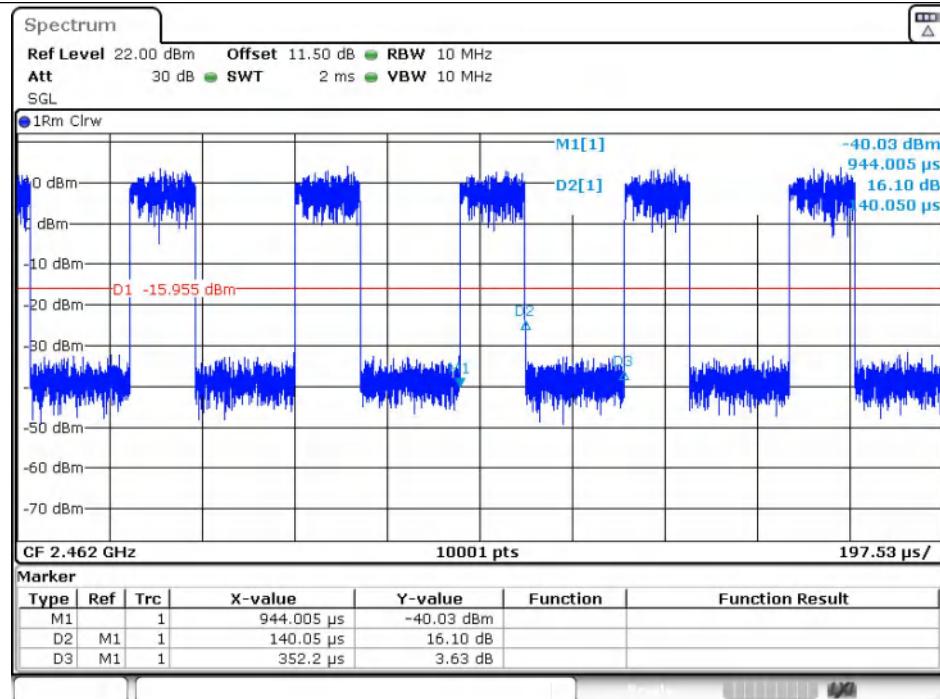
IEEE 802.11n_40MHz_Channel 9



IEEE 802.11ax_20MHz_Channel 1

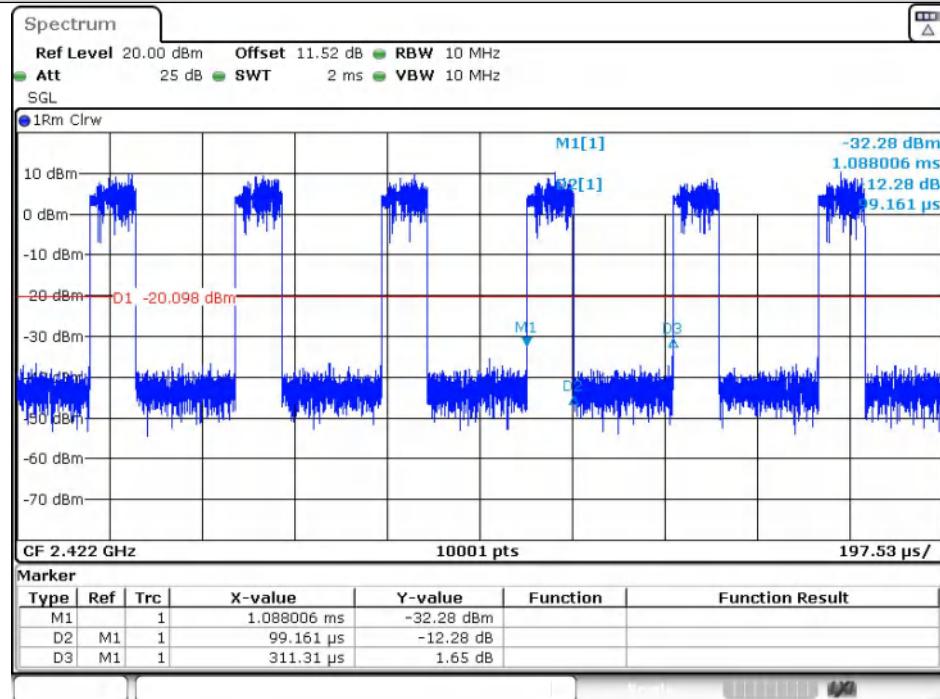


IEEE 802.11ax_20MHz_Channel 6



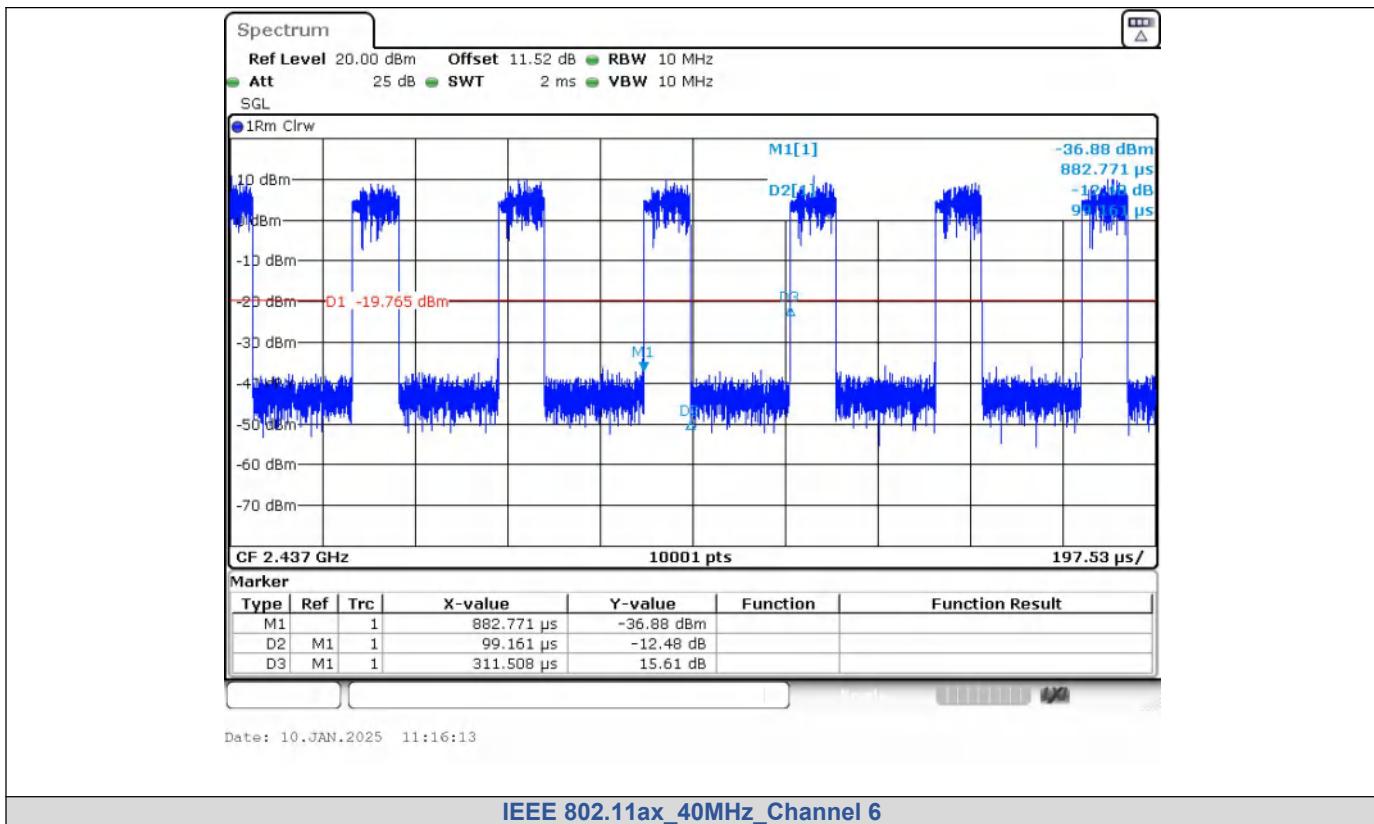
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IEEE 802.11ax_20MHz_Channel 11

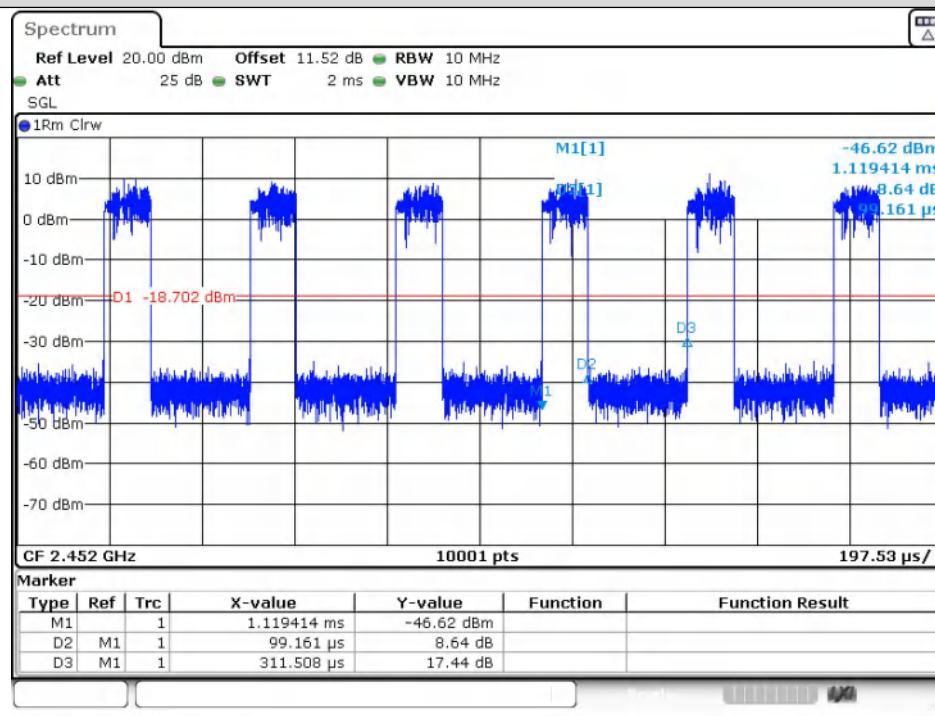


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IEEE 802.11ax_40MHz_Channel 3



IEEE 802.11ax_40MHz_Channel 6



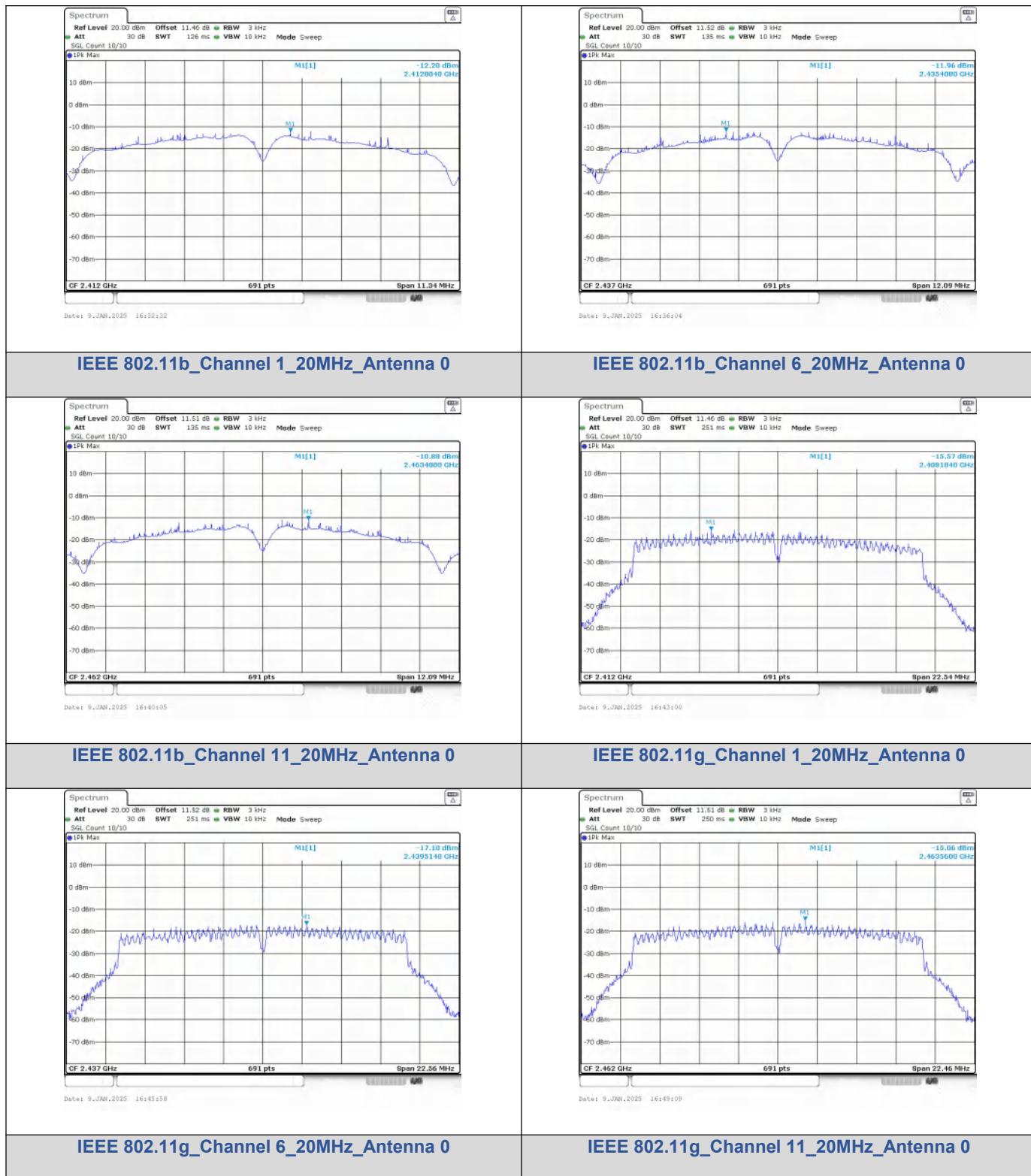
IEEE 802.11ax_40MHz_Channel 9

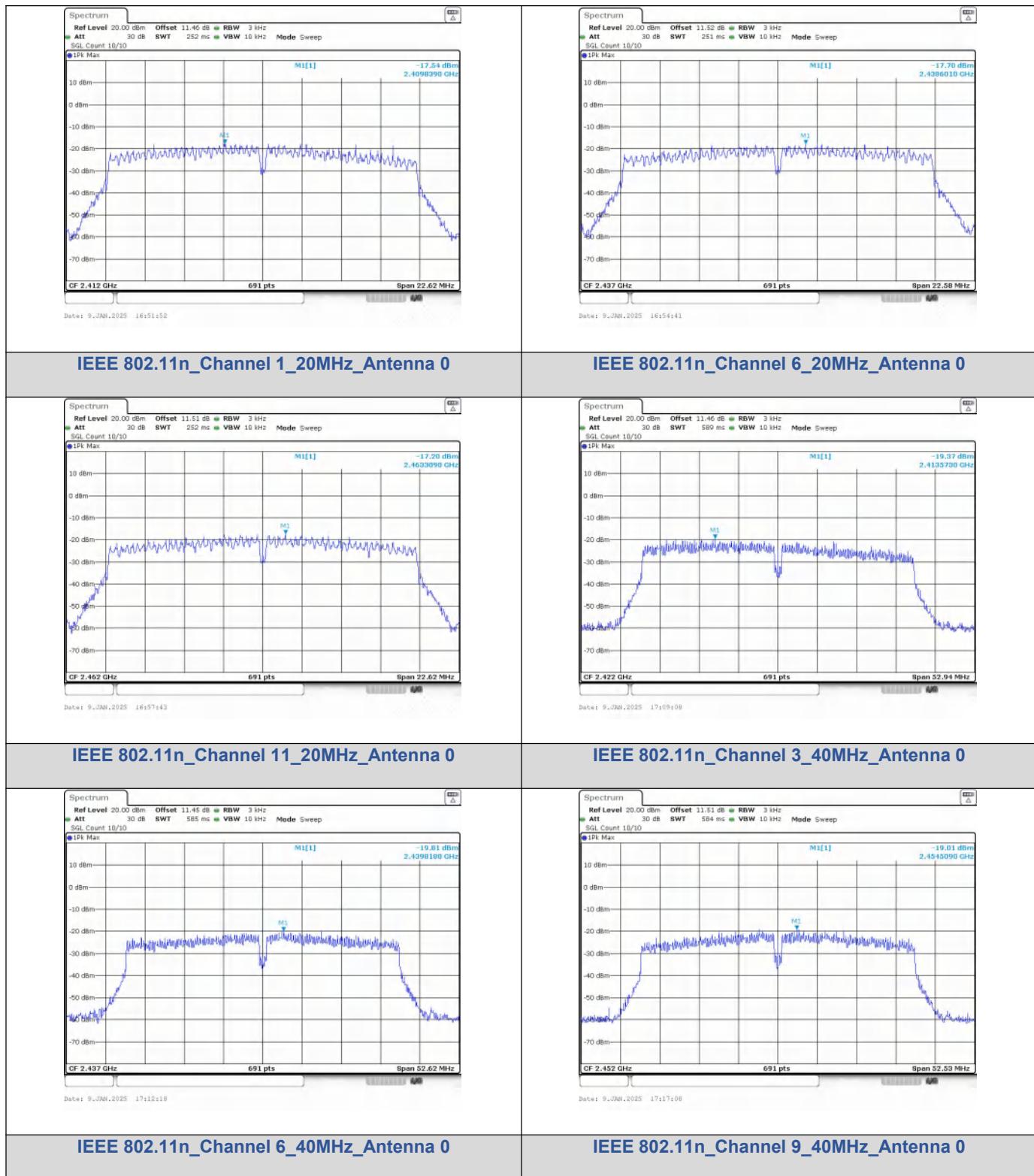
Power Spectral Density

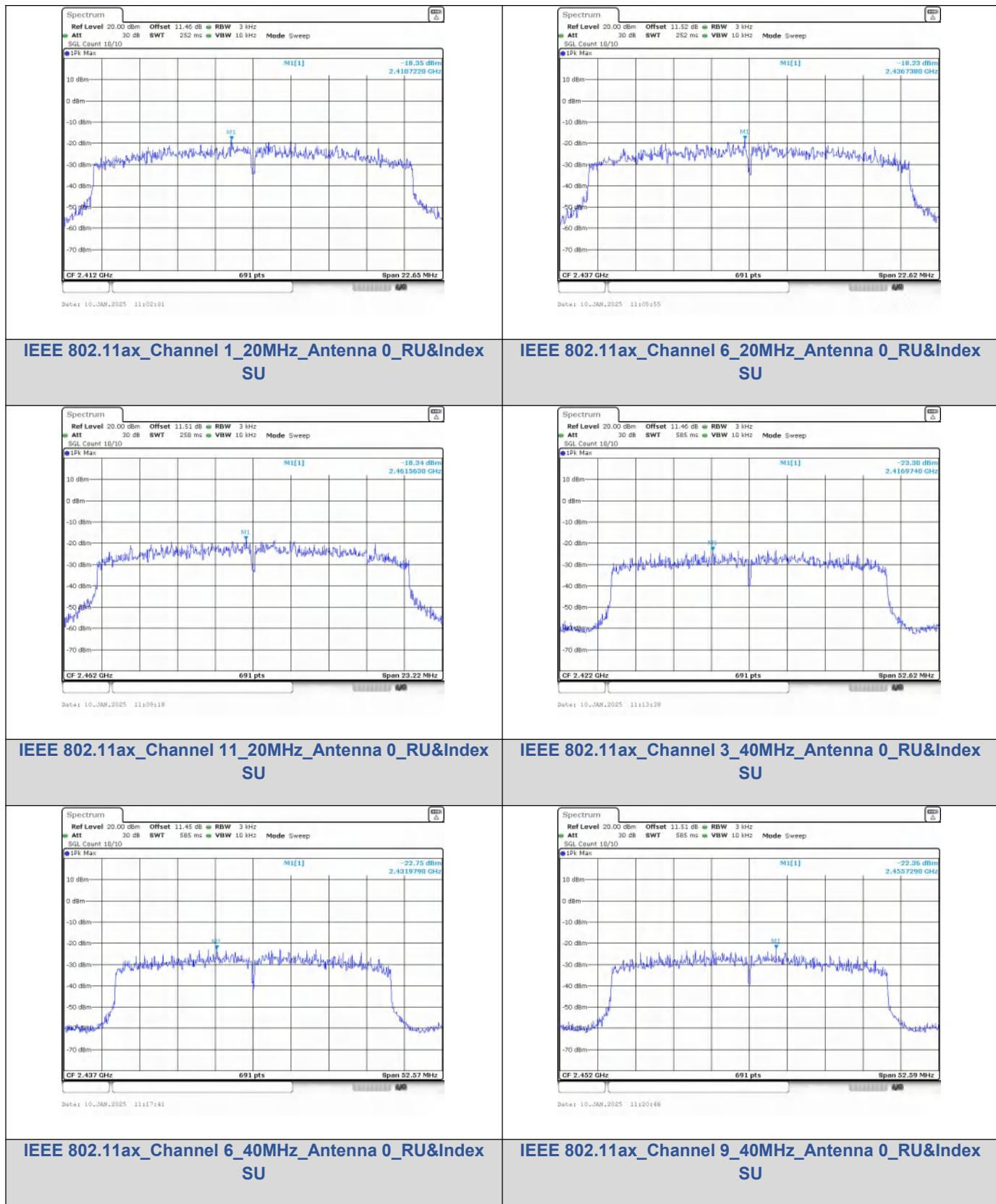
Test Result

Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-12.200	≤8	PASS
	6		-11.960		PASS
	11		-10.880		PASS
IEEE 802.11g	1	N/A	-15.570	≤8	PASS
	6		-17.100		PASS
	11		-15.060		PASS
IEEE 802.11n_20	1	N/A	-17.540	≤8	PASS
	6		-17.700		PASS
	11		-17.200		PASS
IEEE 802.11n_40	3	N/A	-19.370	≤8	PASS
	6		-19.810		PASS
	9		-19.010		PASS
IEEE 802.11ax_20	1	SU	-18.350	≤8	PASS
	6		-18.230		PASS
	11		-18.340		PASS
IEEE 802.11ax_40	3	SU	-23.300	≤8	PASS
	6		-22.750		PASS
	9		-22.360		PASS

Test Graphs







Conducted Output Power

Test Result

Conducted Output Power

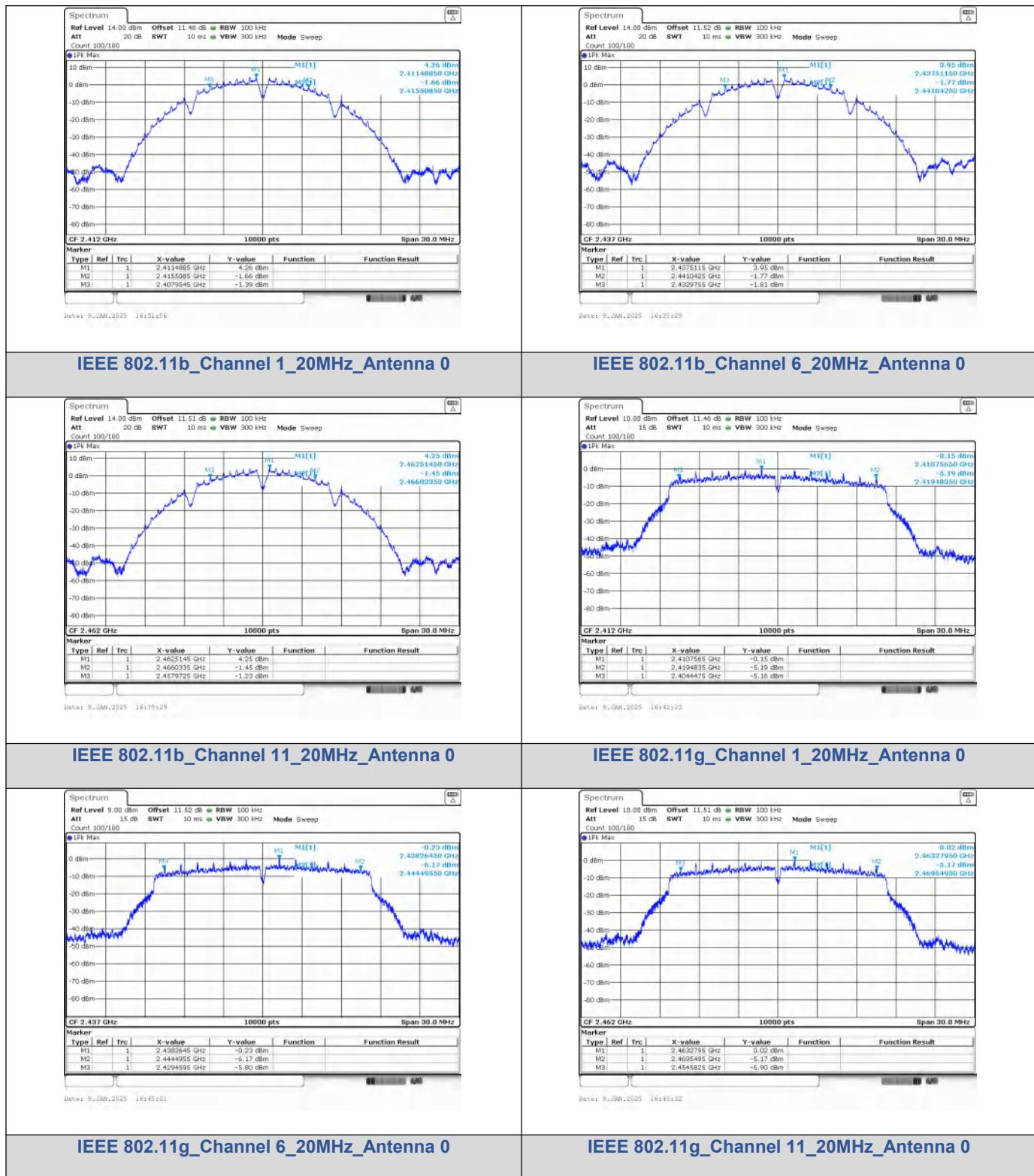
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	16.13	≤30	PASS
	6	16.06	≤30	PASS
	11	16.47	≤30	PASS
IEEE 802.11g	1	17.99	≤30	PASS
	6	17.76	≤30	PASS
	11	18.22	≤30	PASS
IEEE 802.11n_20	1	16.78	≤30	PASS
	6	16.60	≤30	PASS
	11	16.90	≤30	PASS
IEEE 802.11n_40	3	16.94	≤30	PASS
	6	17.01	≤30	PASS
	9	17.12	≤30	PASS
IEEE 802.11ax_20	1	16.35	≤30	PASS
	6	16.55	≤30	PASS
	11	17.66	≤30	PASS
IEEE 802.11ax_40	3	16.97	≤30	PASS
	6	16.99	≤30	PASS
	9	16.64	≤30	PASS

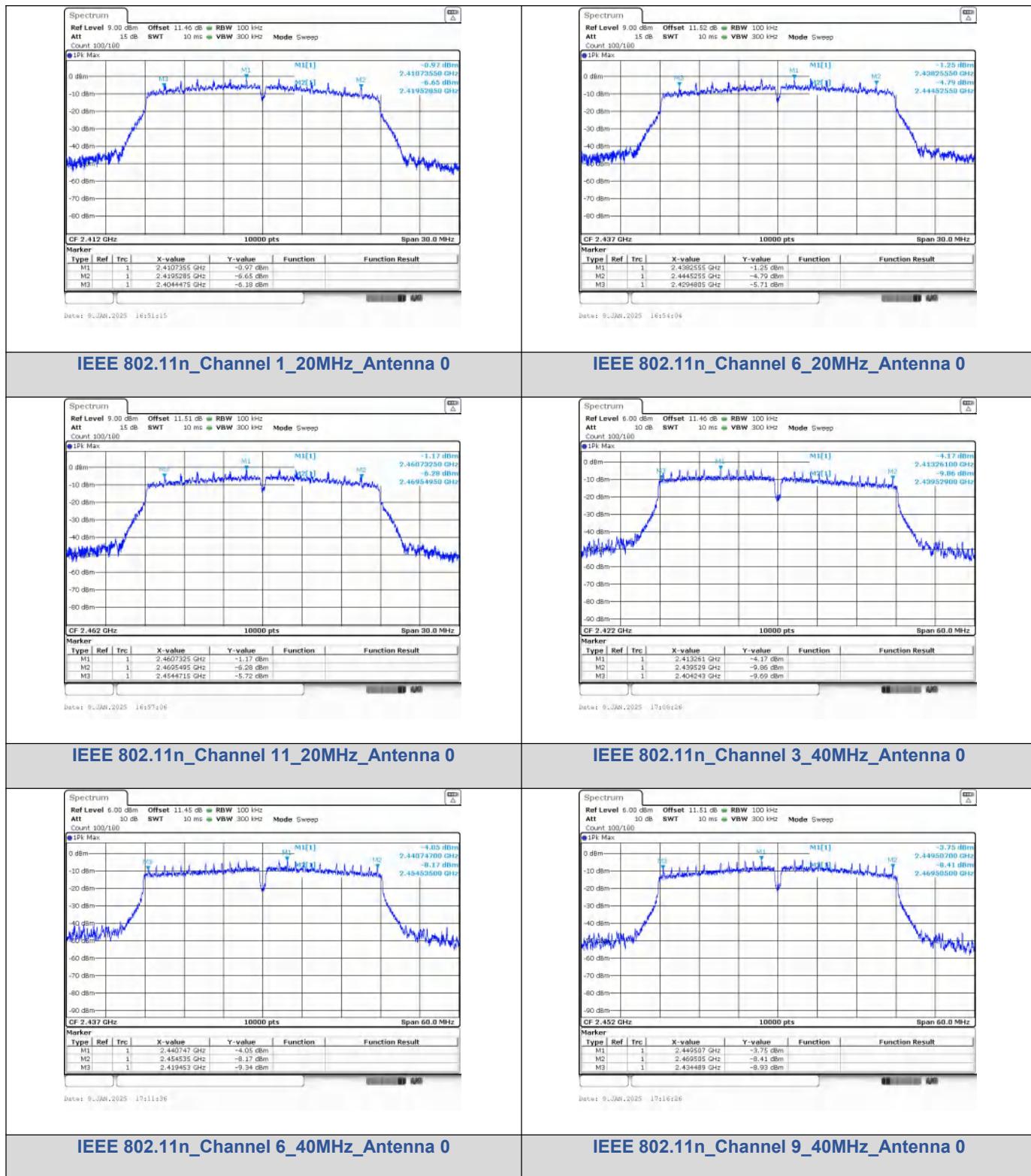
6dB Bandwidth

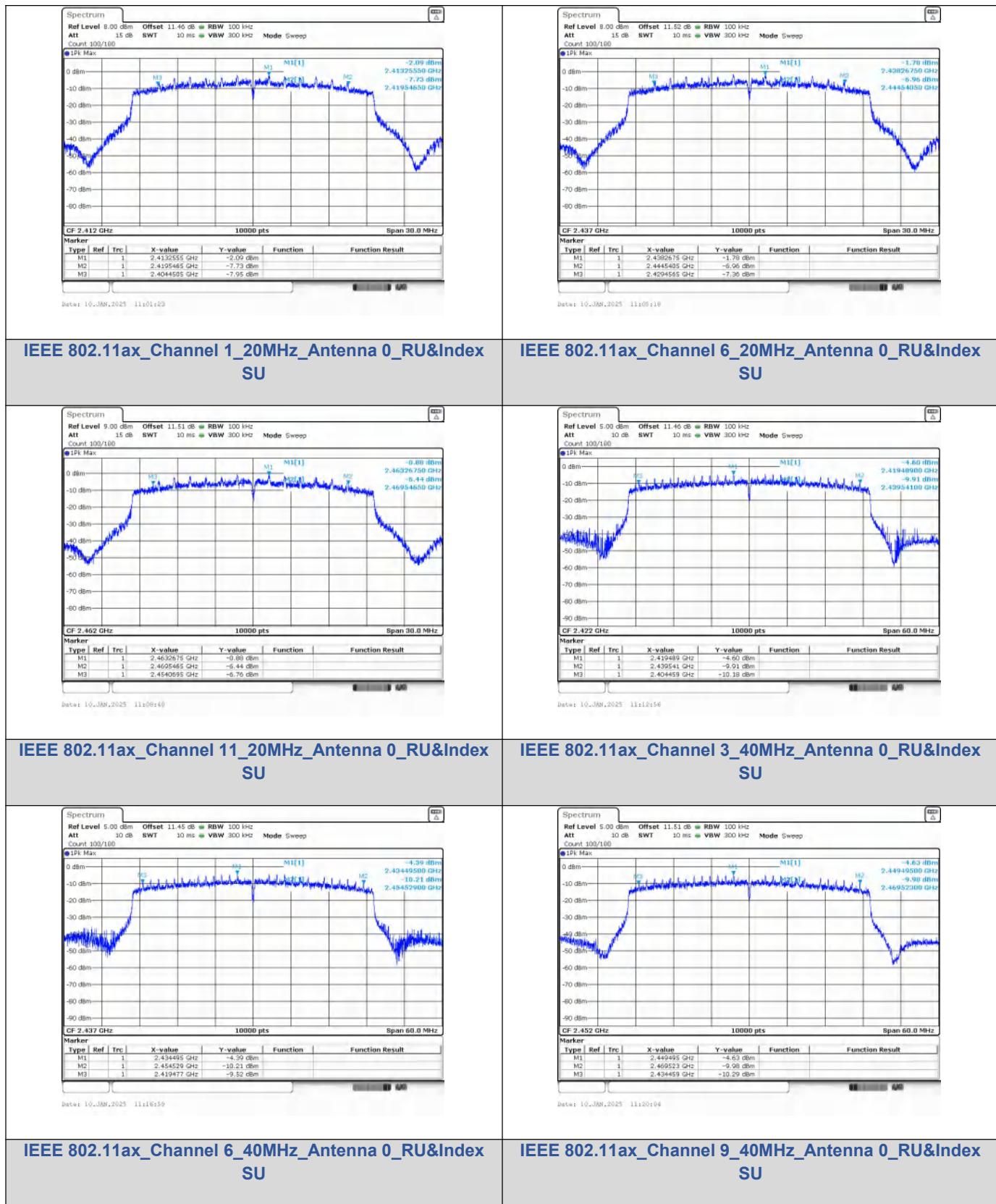
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	7.560	≥0.5	PASS
	6			2437	8.060		PASS
	11			2462	8.060		PASS
IEEE 802.11g	1	N/A	0	2412	15.03	≥0.5	PASS
	6			2437	15.04		PASS
	11			2462	14.97		PASS
IEEE 802.11n_20	1	N/A	0	2412	15.08	≥0.5	PASS
	6			2437	15.05		PASS
	11			2462	15.08		PASS
IEEE 802.11n_40	3	SU	0	2422	35.29	≥0.5	PASS
	6			2437	35.08		PASS
	9			2452	35.02		PASS
IEEE 802.11ax_20	1	SU	0	2412	15.10	≥0.5	PASS
	6			2437	15.08		PASS
	11			2462	15.48		PASS
IEEE 802.11ax_40	3	SU	0	2422	35.08	≥0.5	PASS
	6			2437	35.05		PASS
	9			2452	35.06		PASS

Test Graphs







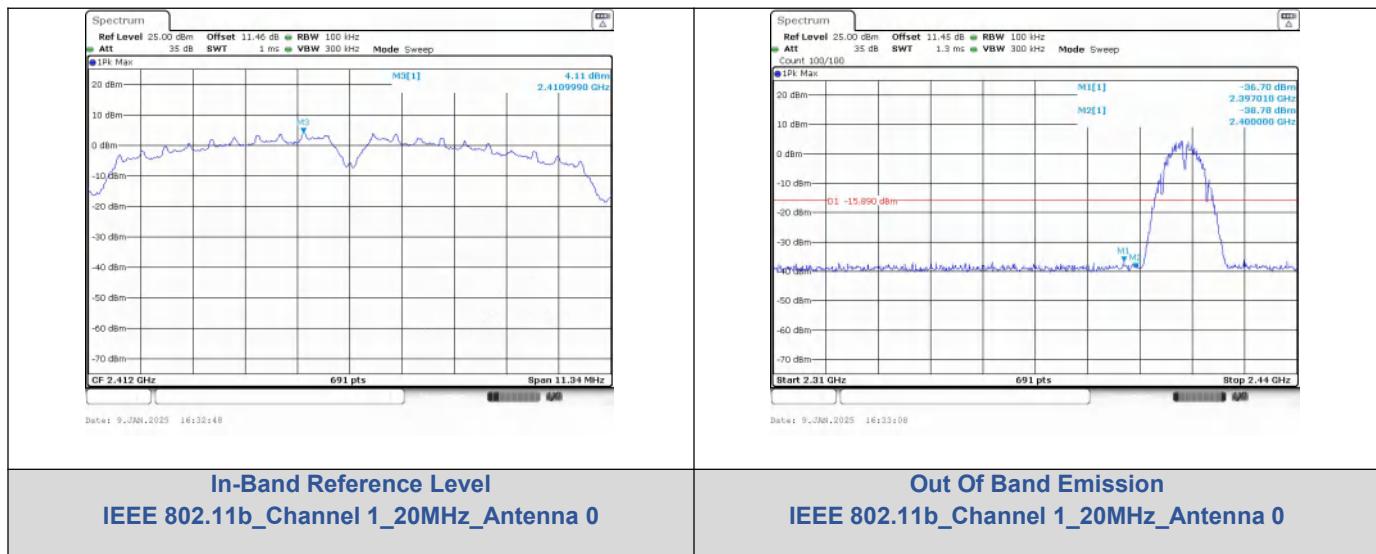
Conducted Out Of Band Emission

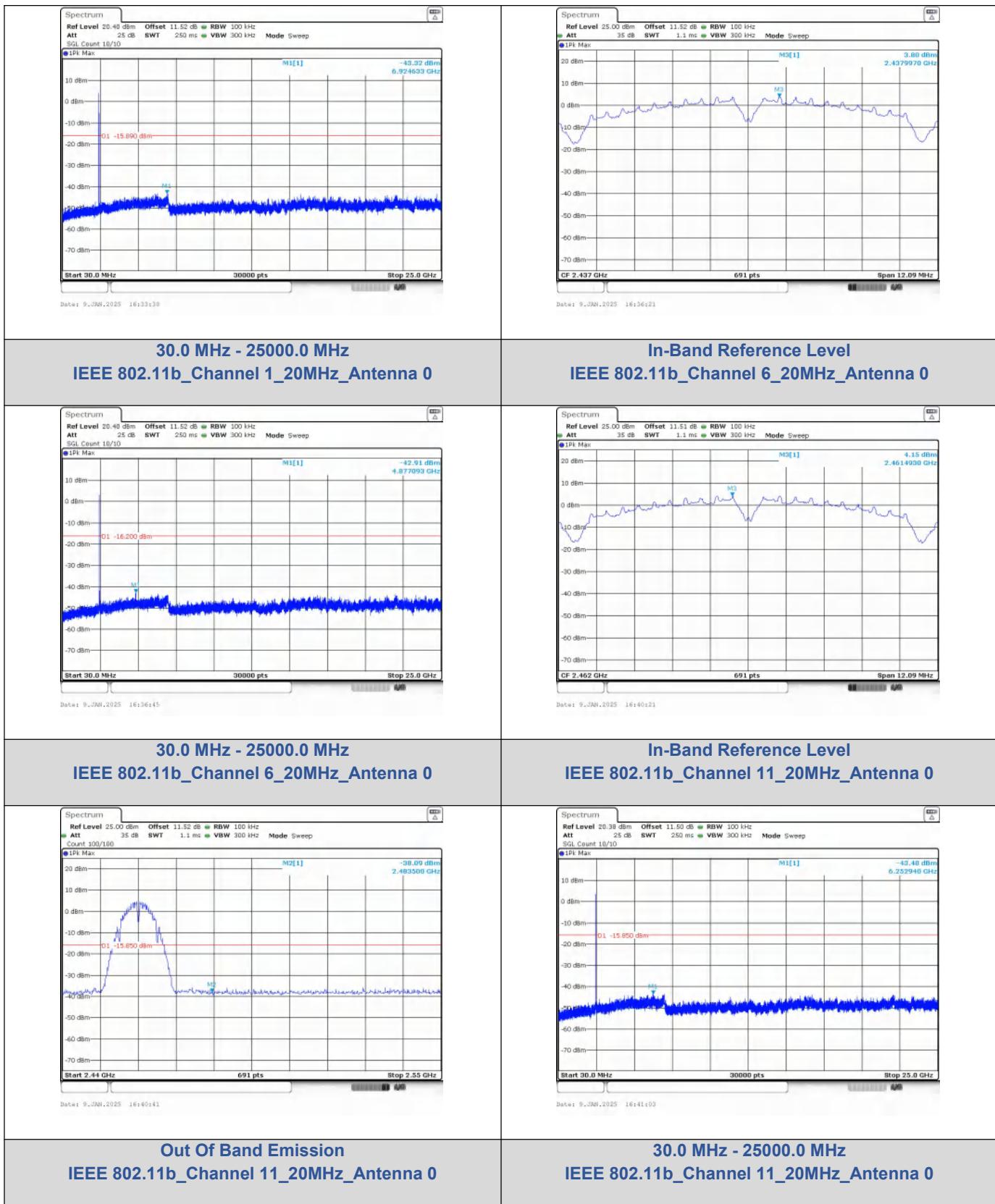
Test Result

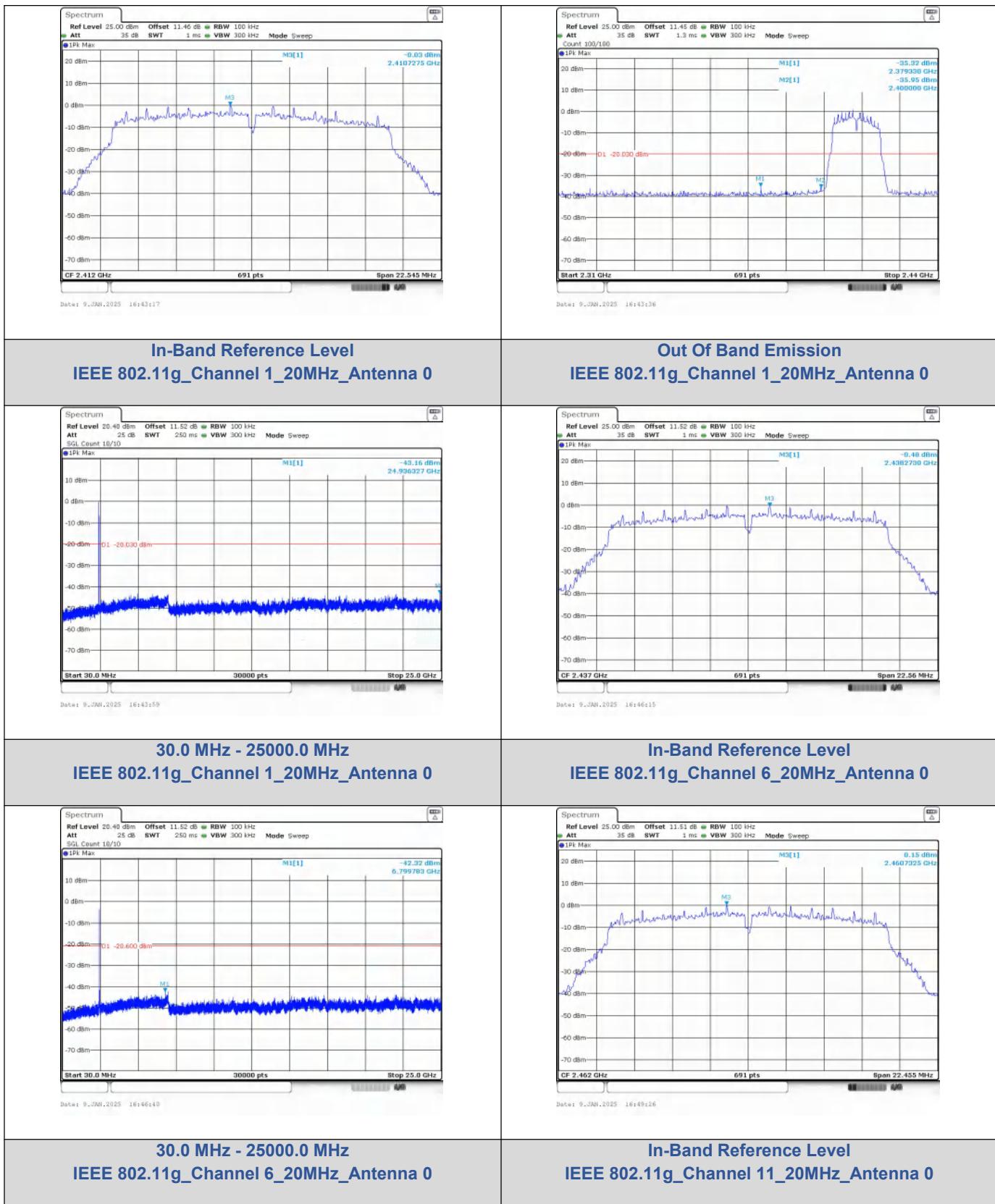
Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result		
IEEE 802.11b	1	N/A	0	2397.01	-36.702	-15.89	-20.812	PASS		
				2400.00	-38.780	-15.89	-22.890	PASS		
				6924.60	-43.322	-15.89	-27.432	PASS		
	6			4877.09	-42.907	-16.2	-26.707	PASS		
				2483.50	-38.090	-15.85	-22.240	PASS		
				6252.94	-43.478	-15.85	-27.628	PASS		
IEEE 802.11g	1			2379.33	-35.321	-20.03	-15.291	PASS		
				2400.00	-35.950	-20.03	-15.920	PASS		
				24936.3	-43.156	-20.03	-23.126	PASS		
	6			6799.78	-42.322	-20.6	-21.722	PASS		
				2483.50	-37.090	-20.35	-16.740	PASS		
				6108.11	-43.483	-20.35	-23.133	PASS		
IEEE 802.11n_20	1			2361.27	-36.928	-20.86	-16.068	PASS		
				2400.00	-37.480	-20.86	-16.620	PASS		
				22054.8	-43.129	-20.86	-22.269	PASS		
	6			6967.08	-41.759	-21.46	-20.299	PASS		
				2483.50	-37.850	-21.3	-16.550	PASS		
				6964.59	-42.455	-21.3	-21.155	PASS		
IEEE 802.11n_40	3			2386.29	-36.875	-24.03	-12.845	PASS		
				2400.00	-37.490	-24.03	-13.460	PASS		
				6912.10	-43.156	-24.03	-19.126	PASS		
	6			6955.43	-43.196	-23.93	-19.266	PASS		
				2483.50	-38.300	-23.65	-14.650	PASS		
				6997.88	-42.292	-23.65	-18.642	PASS		

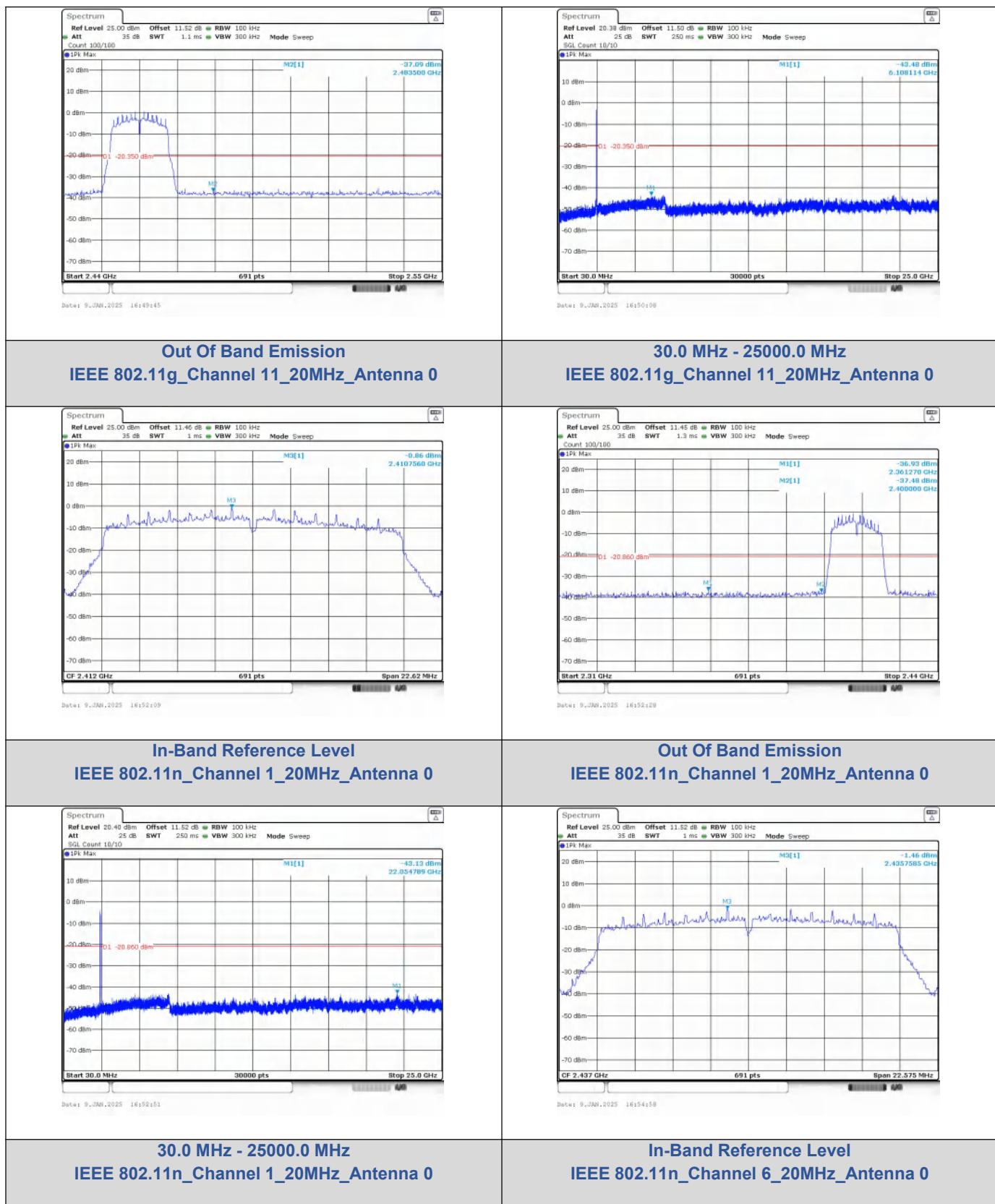
IEEE 802.11ax_20	1	SU	2394.75	-34.405	-22.0	-12.405	PASS	
			2400.00	-38.490	-22.0	-16.490	PASS	
			5011.90	-43.314	-22.0	-21.314	PASS	
	6		6943.78	-42.559	-21.75	-20.809	PASS	
			2483.50	-38.000	-20.8	-17.200	PASS	
			6958.76	-43.253	-20.8	-22.453	PASS	
IEEE 802.11ax_40	3	SU	2394.75	-36.300	-24.36	-11.940	PASS	
			2400.00	-39.240	-24.36	-14.880	PASS	
			6980.40	-43.013	-24.36	-18.653	PASS	
	6		23363.2	-43.552	-24.18	-19.372	PASS	
			2483.50	-37.860	-24.49	-13.370	PASS	
			6311.20	-42.703	-24.49	-18.213	PASS	

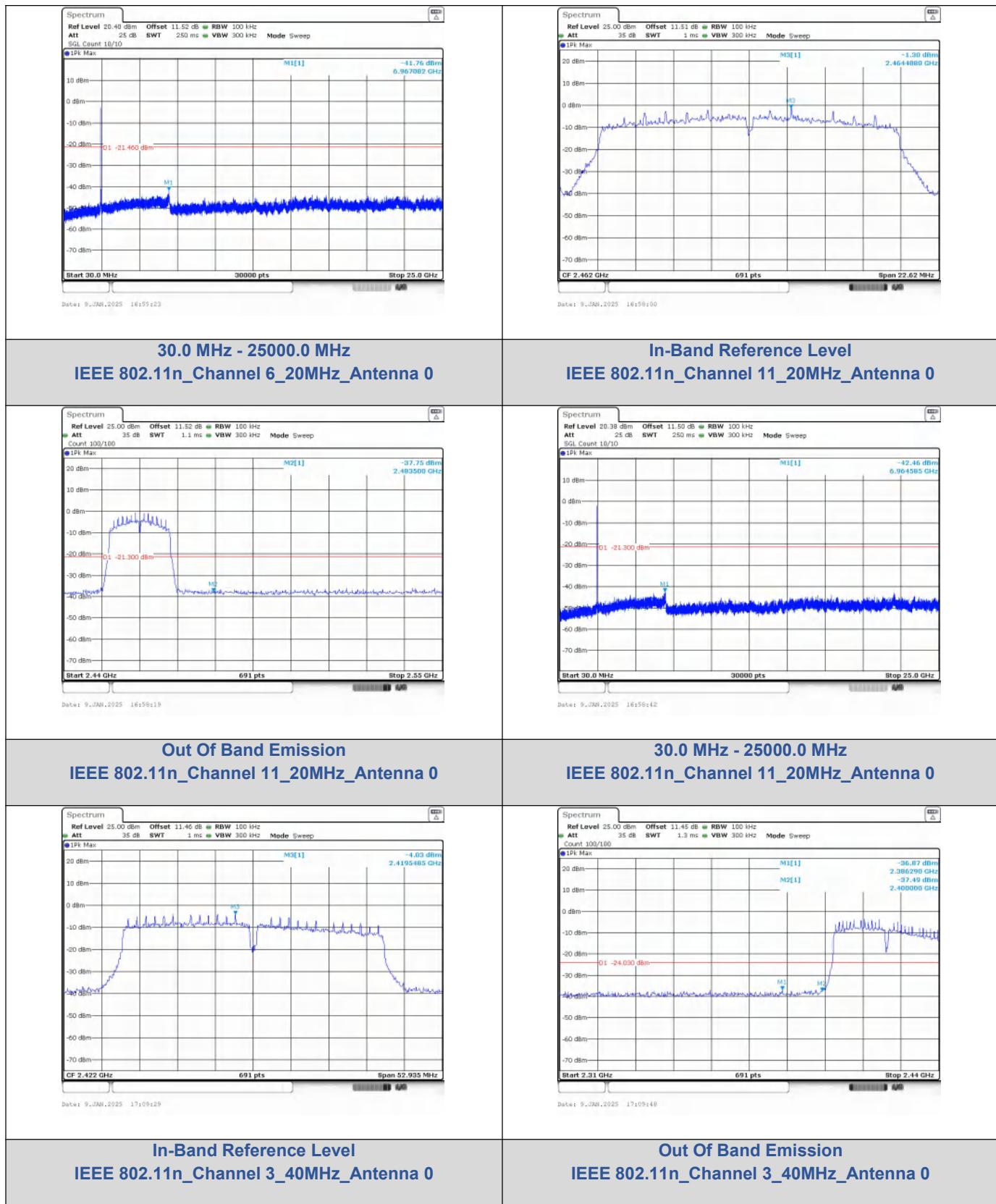
Test Graphs

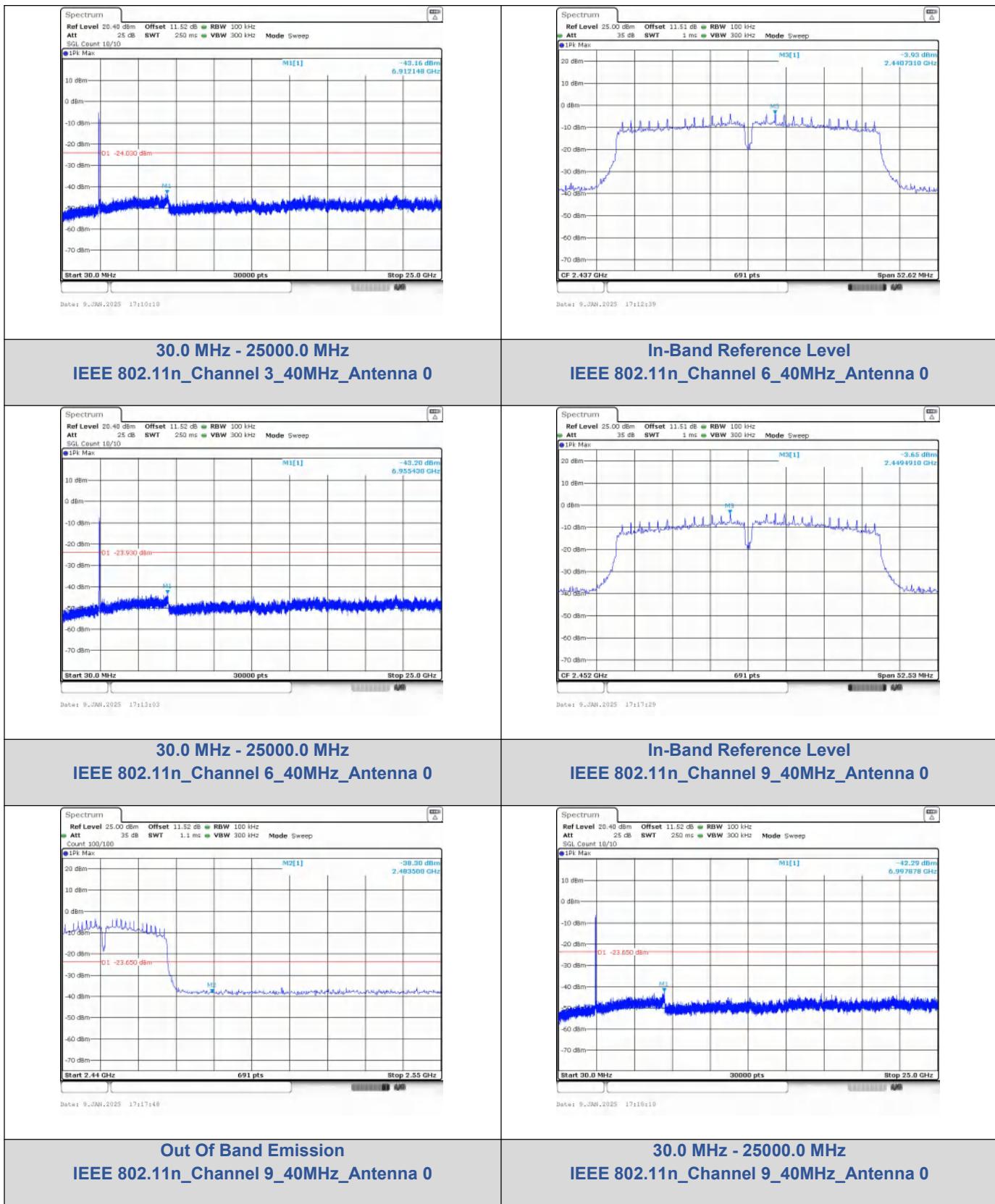


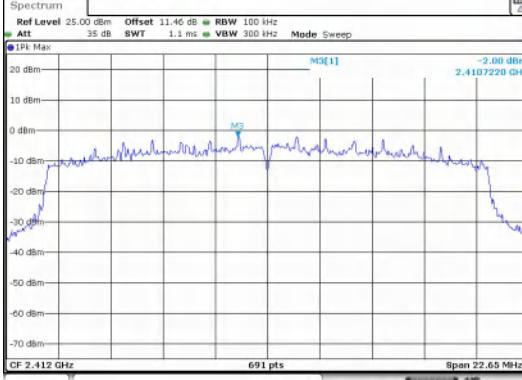
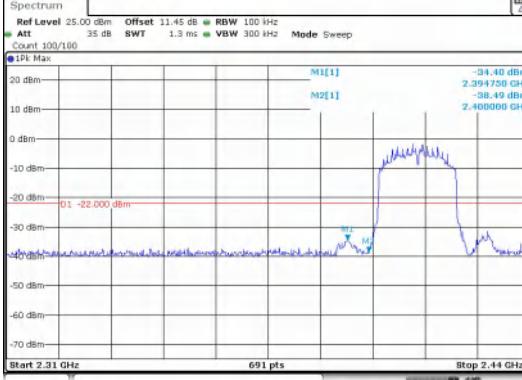
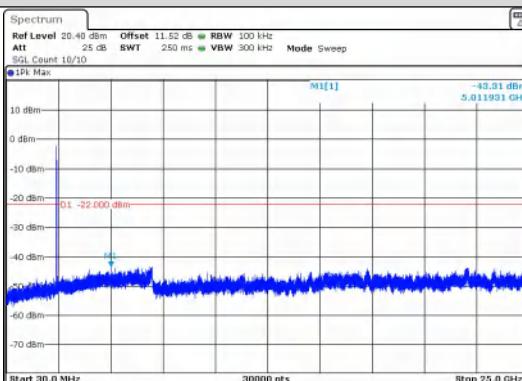
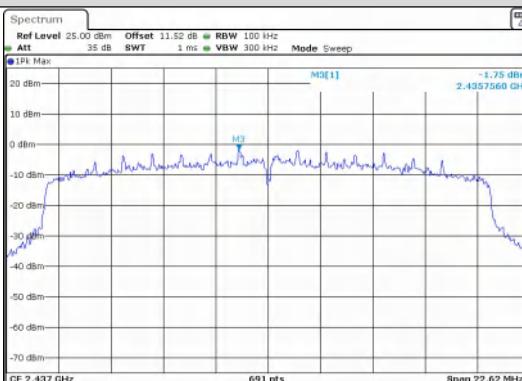
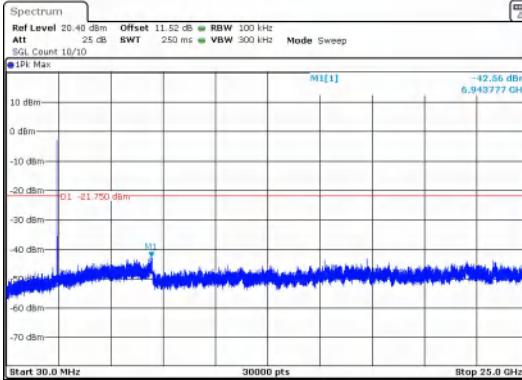
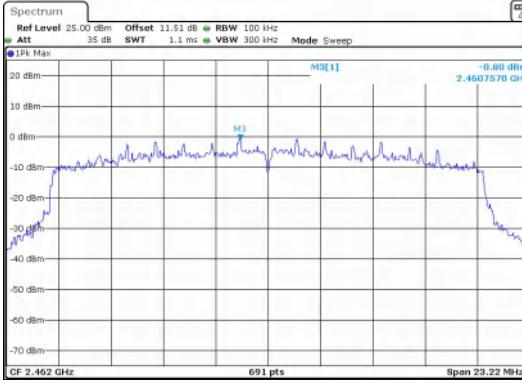


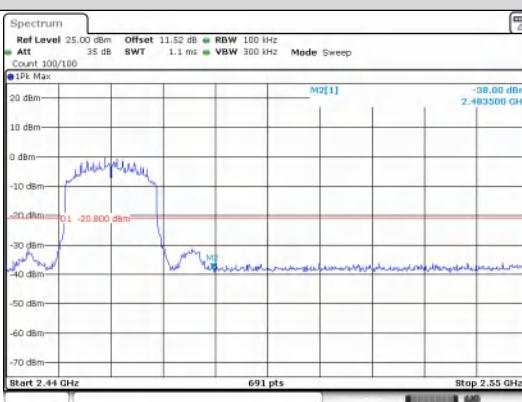
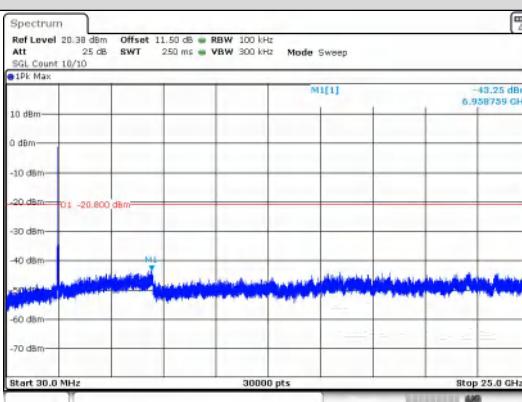
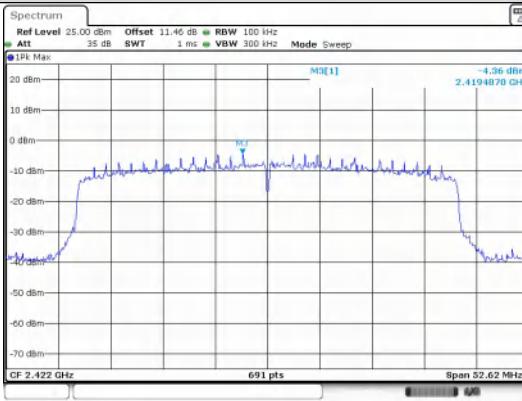
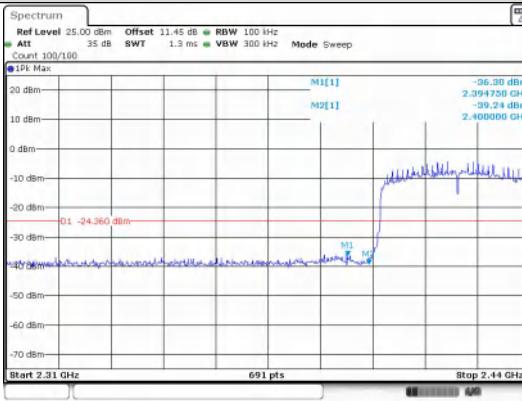
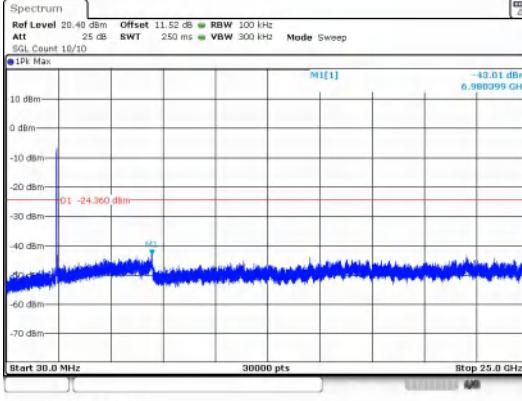
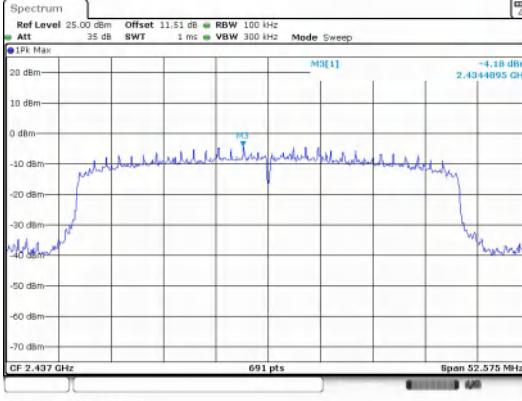


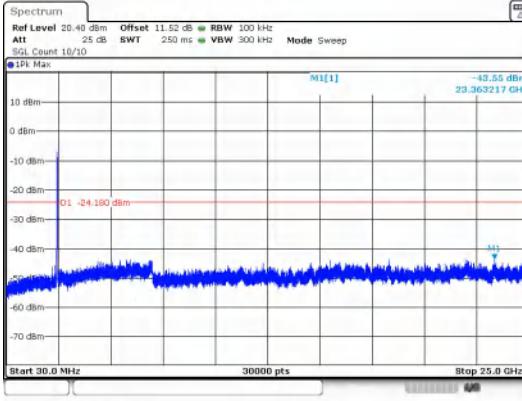
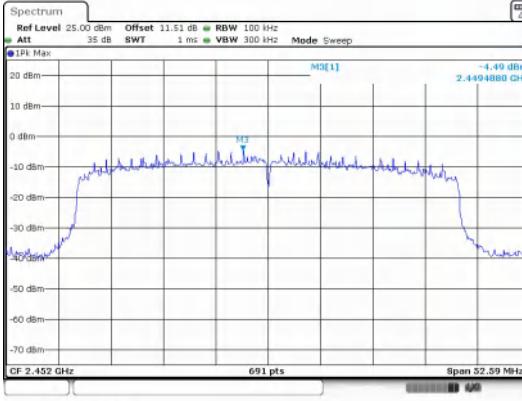
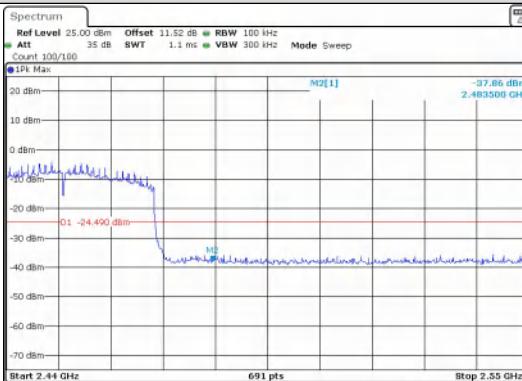
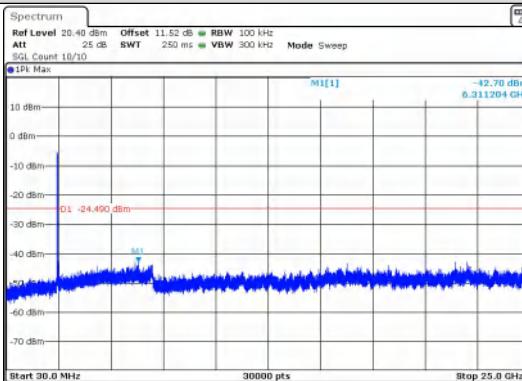






 <p>Date: 10.JAN.2025 11:02:18</p>	 <p>Date: 10.JAN.2025 11:02:37</p>
<p>In-Band Reference Level IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU</p>  <p>Date: 10.JAN.2025 11:03:00</p>	<p>Out Of Band Emission IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU</p>  <p>Date: 10.JAN.2025 11:06:12</p>
<p>30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU</p>  <p>Date: 10.JAN.2025 11:06:36</p>	<p>In-Band Reference Level IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU</p>  <p>Date: 10.JAN.2025 11:09:34</p>
<p>30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index</p>	<p>In-Band Reference Level IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index</p>

SU	SU
 <p>Ref Level 25.00 dBm Offset 11.52 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep Count 100/100</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.44 GHz 691 pts Stop 2.55 GHz</p> <p>Date: 10.JAN.2025 11:00:53</p>	 <p>Ref Level 25.00 dBm Offset 11.52 dB RBW 100 kHz Att 25 dB SWT 250 ms VBW 300 kHz Mode Sweep SGL Count 10/10</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 30.0 MHz 30000 pts Stop 25.0 GHz</p> <p>Date: 10.JAN.2025 11:01:01</p>
Out Of Band Emission IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU	30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU
 <p>Ref Level 25.00 dBm Offset 11.46 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep Count 100/100</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.422 GHz 691 pts Span 52.62 MHz</p> <p>Date: 10.JAN.2025 11:13:59</p>	 <p>Ref Level 25.00 dBm Offset 11.46 dB RBW 100 kHz Att 35 dB SWT 1.3 ms VBW 300 kHz Mode Sweep Count 100/100</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.44 GHz</p> <p>Date: 10.JAN.2025 11:14:18</p>
In-Band Reference Level IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU	Out Of Band Emission IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU
 <p>Ref Level 25.00 dBm Offset 11.52 dB RBW 100 kHz Att 25 dB SWT 250 ms VBW 300 kHz Mode Sweep SGL Count 10/10</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>Start 30.0 MHz 30000 pts Stop 25.0 GHz</p> <p>Date: 10.JAN.2025 11:14:40</p>	 <p>Ref Level 25.00 dBm Offset 11.51 dB RBW 100 kHz Att 35 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>CF 2.437 GHz 691 pts Span 52.575 MHz</p> <p>Date: 10.JAN.2025 11:18:01</p>
30.0 MHz - 25000.0 MHz	In-Band Reference Level

IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU  <p>Date: 10.JAN.2025 11:18:26</p>	IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU  <p>Date: 10.JAN.2025 11:21:07</p>
30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU  <p>Date: 10.JAN.2025 11:21:26</p>	In-Band Reference Level IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU  <p>Date: 10.JAN.2025 11:21:48</p>
Out Of Band Emission IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU <p>Date: 10.JAN.2025 11:21:26</p>	30.0 MHz - 25000.0 MHz IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU <p>Date: 10.JAN.2025 11:21:48</p>

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