

TEST REPORT

Report No.	CISRR250623037A07
Project No.	CISR250623037A
FCC ID	2A49W-C50
Applicant	Shenzhen Shengmai Electronics Co., Ltd
Address	4th Floor, Building 1, No. 34 Hezhou Road, Hezhou Community, Hangcheng Street, Bao'an District, Shenzhen
Manufacturer	Shenzhen Shengmai Electronics Co., Ltd
Address	4th Floor, Building 1, No. 34 Hezhou Road, Hezhou Community, Hangcheng Street, Bao'an District, Shenzhen
Product Name	Digital music player
Trade Mark	
Model/Type reference	C50
Listed Model(s)	B260, B270, B280, B60, B70, B80, C60, C70, C80
Standard	47 CFR Part 15.247
Test date	June 25, 2025 to July 2, 2025
Issue date	July 3, 2025
Test result	Complied

Lucas Huang

Reviewed by: Lucas Huang


Approved by: Hans Hu

The test results relate only to the tested samples.

The test report should not be reproduced except in full without the written approval of Shenzhen Bangce Testing Technology Co., Ltd.

Contents

1. REPORT VERSION	3
2. TEST DESCRIPTION	4
3. SUMMARY	5
3.1. Product Description *	5
3.2. Radio Specification Description *	5
3.3. Modification of EUT	6
3.4. Deviation from standards	6
3.5. Testing Site	6
4. TEST CONFIGURATION	7
4.1. Test frequency list	7
4.2. Descriptions of test mode	7
4.3. Test sample information	7
4.4. Environmental conditions	7
4.5. Statement of the measurement uncertainty	7
4.6. Equipment Used during the Test	8
5. TEST RESULTS	10
5.1. Evaluation Results (Evaluation)	10
5.1.1. Antenna Requirement	10
5.2. Radio Spectrum Matter Test Results (RF)	11
5.2.1. Conducted Emission at AC power line	11
5.2.2. 6dB Bandwidth	14
5.2.3. Maximum Conducted Output Power	15
5.2.4. Power Spectral Density	16
5.2.5. Conducted band edge and spurious emission	17
5.2.6. Radiated band edge emission	18
5.2.7. Radiated Spurious Emission (below 1GHz)	24
5.2.8. Radiated Spurious Emission (Above 1GHz)	28
6. APPENDIX REPORT	36
6.1. Duty Cycle	36
6.2. Power Spectral Density	38
6.3. Conducted Output Power	41
6.4. 6dB Bandwidth	44
6.5. Conducted Out Of Band Emission	47

1. REPORT VERSION

Version No.	Issue date	Description
00	July 3, 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:	Digital music player
Trade Mark:	
Model No.:	C50
Listed Model(s):	B260, B270, B280, B60, B70, B80, C60, C70, C80
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:	Input: DC 5V
Hardware version:	A101_MB_V1.0_20241107
Software version:	A101_C50_ZX_3_32_20250308
Accessory unit (AU) information:	
Battery information:	DC 3.85V

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	3.26dBi

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:

CH01	2412 MHz	CH07	2442MHz
CH02	2417 MHz	CH08	--
CH03	2422 MHz	CH09	2452 MHz
CH04	--	CH10	--
CH05	--	CH11	2462 MHz
CH06	2437MHz	--	--

3.3. Modification of EUT

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

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

4. TEST CONFIGURATION

4.1. Test frequency list

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

4.2. Descriptions of test mode

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

4.3. Test sample information

Type	Sample No.
Engineer sample	CISR250623037A-S01
Normal sample	CISR250623037A-S02

4.4. Environmental conditions

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

4.5. Statement of the measurement uncertainty

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

		3.80dB for above 1GHz
8	Radiated Spurious Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz

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

4.6. 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	ESC17	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

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

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC17	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G40	AP23A8060270	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP01018050	AP23A8060280	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	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	1463	2023-01-09	2026-01-08

			9163			
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.
-------------------	---

5.1.1.1. Test Result

Pass

5.1.1.2. Conclusion:

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

5.2. Radio Spectrum Matter Test Results (RF)

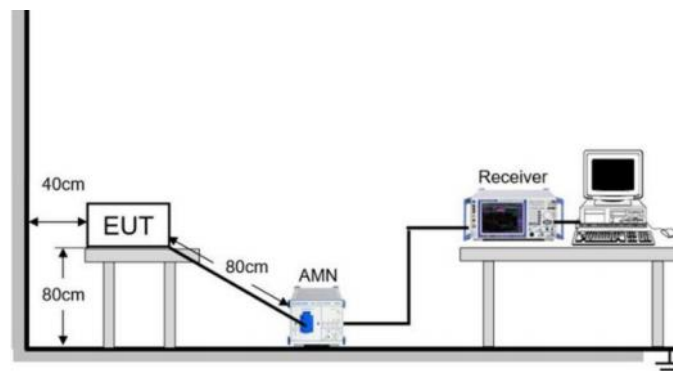
5.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2020 section 6.2		
Procedure:	1. The EUT was setup according to ANSI C63.10 requirements. 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. 4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. 8. During the above scans, the emissions were maximized by cable manipulation.		

5.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.3 °C	Humidity:	55.7 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM5				
Final test mode:	TM5				

5.2.1.2. Test Setup Diagram

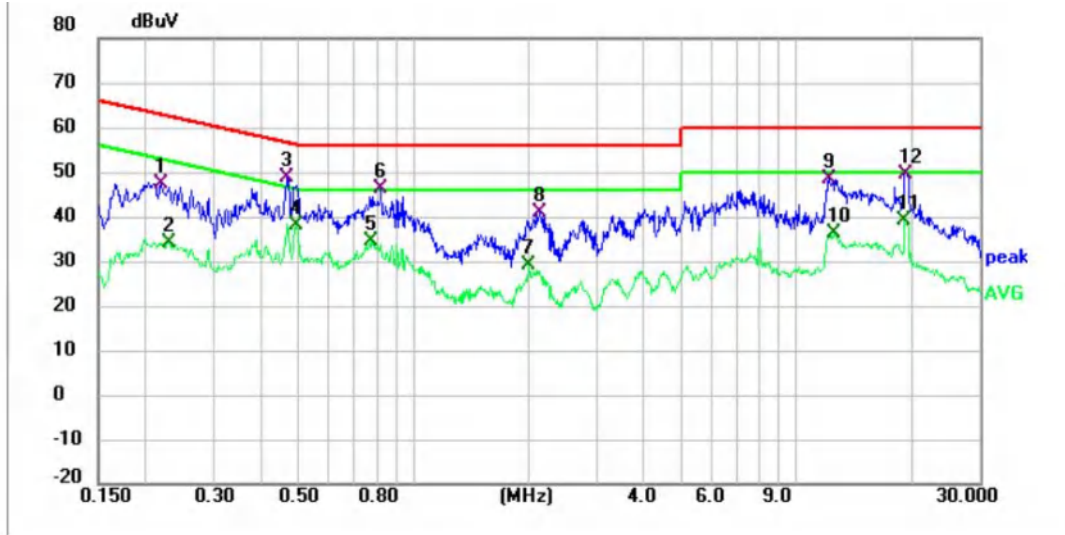


5.2.1.3. Test Result

Pass

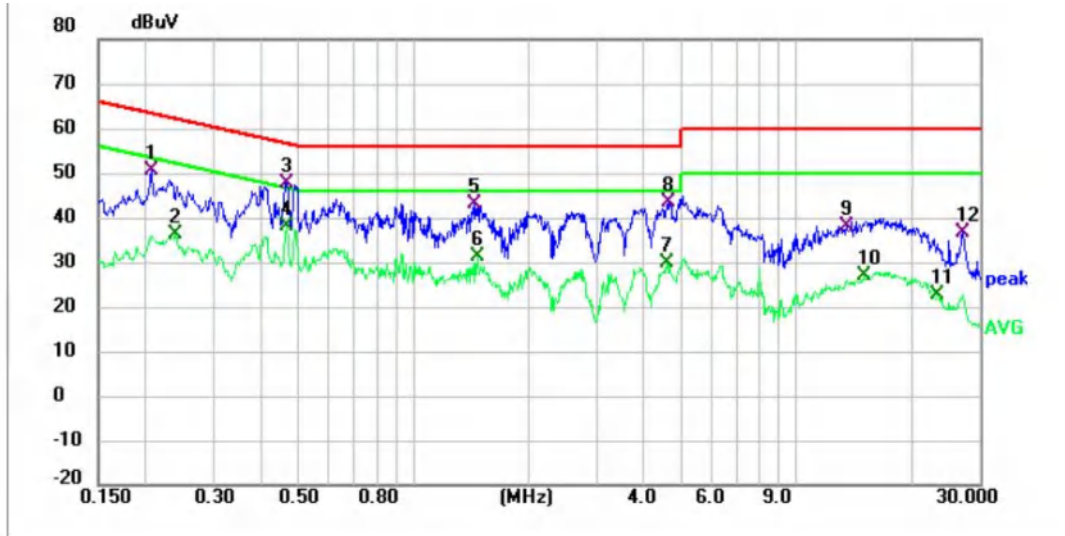
5.2.1.4. Test Data

Mode5 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2180	36.93	10.29	47.22	62.89	-15.67	QP
2	0.2300	23.92	10.30	34.22	52.45	-18.23	AVG
3	0.4660	38.28	10.32	48.60	56.58	-7.98	QP
4 *	0.4940	27.85	10.34	38.19	46.10	-7.91	AVG
5	0.7740	23.99	10.39	34.38	46.00	-11.62	AVG
6	0.8260	35.90	10.39	46.29	56.00	-9.71	QP
7	2.0020	18.58	10.67	29.25	46.00	-16.75	AVG
8	2.1260	30.10	10.71	40.81	56.00	-15.19	QP
9	12.2180	33.74	14.77	48.51	60.00	-11.49	QP
10	12.5060	21.32	14.92	36.24	50.00	-13.76	AVG
11	19.2020	23.31	15.66	38.97	50.00	-11.03	AVG
12	19.2900	33.99	15.65	49.64	60.00	-10.36	QP

Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2060	40.14	10.29	50.43	63.37	-12.94	QP
2	0.2380	26.06	10.30	36.36	52.17	-15.81	AVG
3	0.4636	37.50	10.34	47.84	56.63	-8.79	QP
4 *	0.4660	27.66	10.34	38.00	46.58	-8.58	AVG
5	1.4420	32.68	10.52	43.20	56.00	-12.80	QP
6	1.4700	20.87	10.53	31.40	46.00	-14.60	AVG
7	4.6020	18.34	11.58	29.92	46.00	-16.08	AVG
8	4.6540	31.93	11.60	43.53	56.00	-12.47	QP
9	13.5180	23.06	15.09	38.15	60.00	-21.85	QP
10	15.0340	11.37	15.72	27.09	50.00	-22.91	AVG
11	23.4460	7.26	15.55	22.81	50.00	-27.19	AVG
12	27.1580	21.58	15.11	36.69	60.00	-23.31	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:	11.8.1 Option 1 The steps for the first option are as follows: - Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. - Set the VBW $\geq [3 \times \text{RBW}]$. - Detector = peak. - Trace mode = max-hold. - Sweep = No faster than coupled (auto) time. - Allow the trace to stabilize. - Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	55.8 %	Atmospheric Pressure:	102 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:	23.4 °C	Humidity:	55.8 %	Atmospheric Pressure:	102 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:	23.4 °C	Humidity:	55.8 %	Atmospheric Pressure:	102 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:	23.4 °C	Humidity:	55.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.5.2. Test Setup Diagram



5.2.5.3. Test Result

Pass

5.2.5.4. Test Data

Please Refer to Appendix for Details.

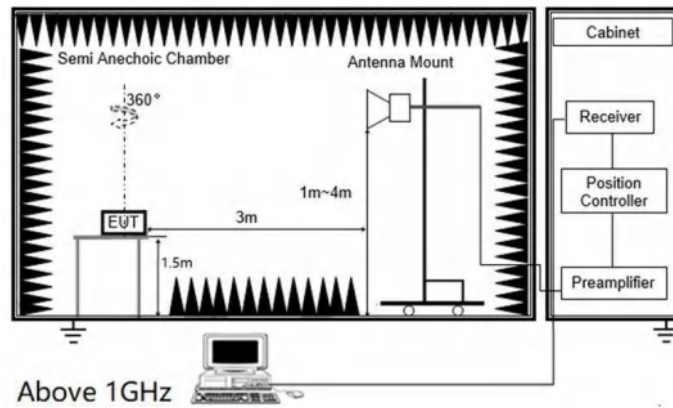
5.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	1. EUT was setup and tested according to ANSI C63.10 . 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. 5. Use the following spectrum analyzer settings: a) Span shall wide enough to fully capture the emission being measured b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Averager level = Peak level + DCCF		

5.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.6.2. Test Setup Diagram



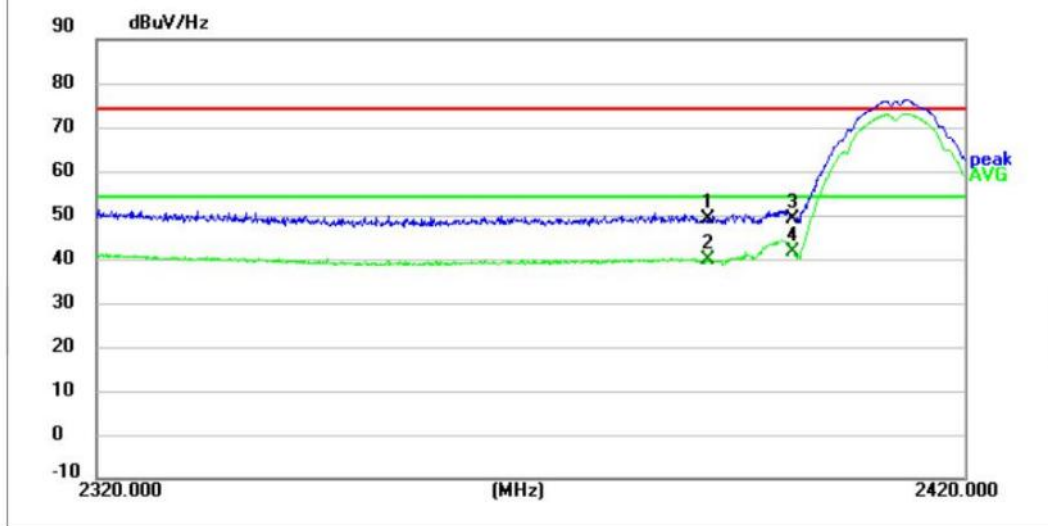
5.2.6.3. Test Result

Pass

5.2.6.4. Test Data

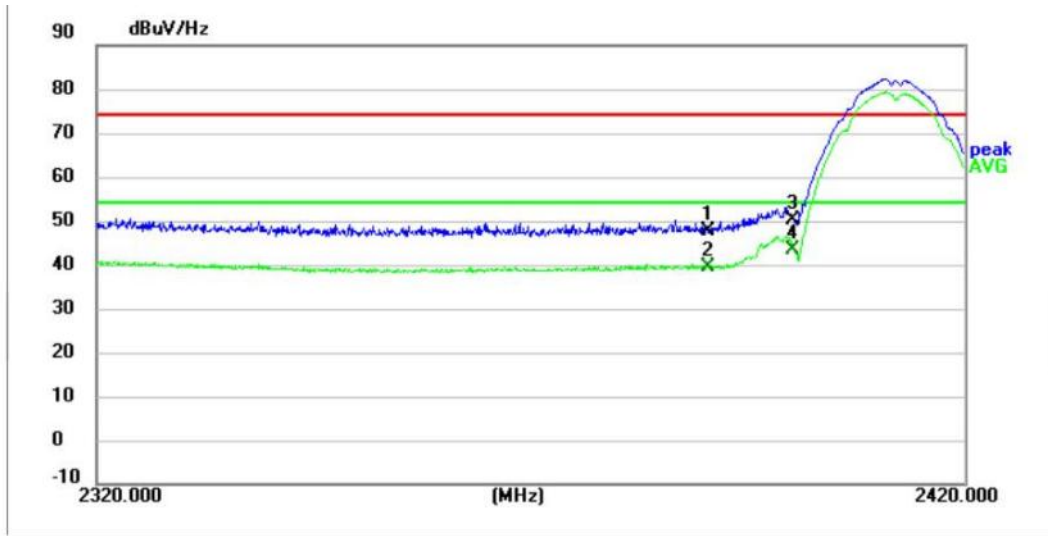
Have pre-scan all test channel, found 11B mode which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



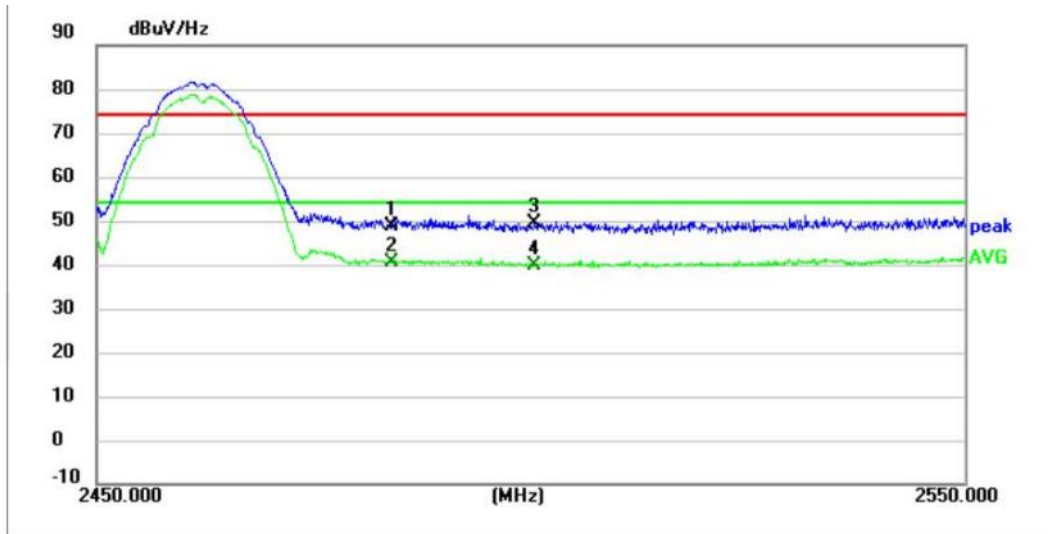
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	46.71	2.34	49.05	74.00	-24.95	peak
2	2390.0000	37.40	2.34	39.74	54.00	-14.26	AVG
3	2400.0000	46.83	2.38	49.21	74.00	-24.79	peak
4 *	2400.0000	39.22	2.38	41.60	54.00	-12.40	AVG

Mode1 / Polarization: Vertical / CH: L



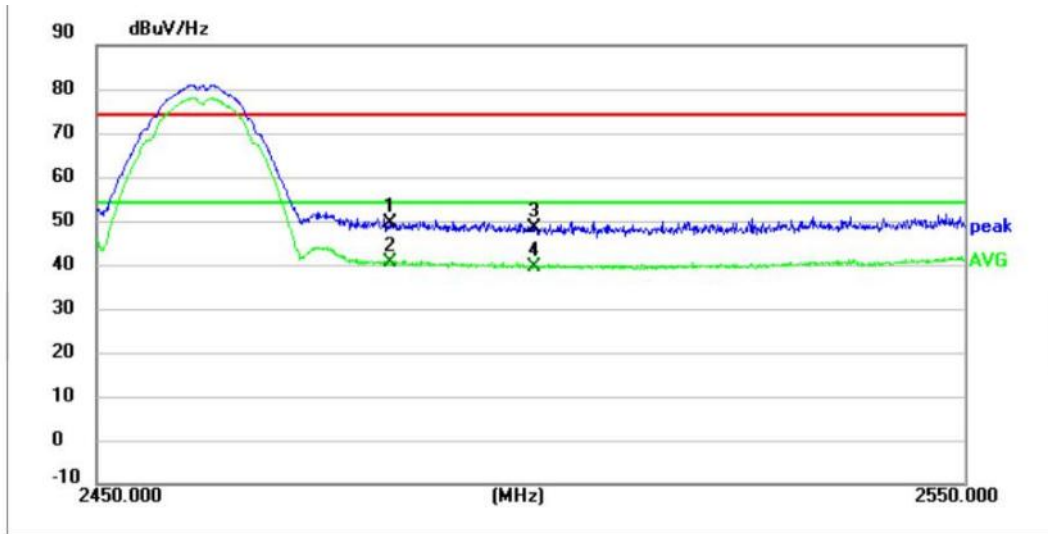
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	45.29	2.34	47.63	74.00	-26.37	peak
2	2390.0000	37.06	2.34	39.40	54.00	-14.60	AVG
3	2400.0000	47.80	2.38	50.18	74.00	-23.82	peak
4 *	2400.0000	41.02	2.38	43.40	54.00	-10.60	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	46.07	2.66	48.73	74.00	-25.27	peak
2 *	2483.5000	38.00	2.66	40.66	54.00	-13.34	AVG
3	2500.0000	46.58	2.80	49.38	74.00	-24.62	peak
4	2500.0000	37.20	2.80	40.00	54.00	-14.00	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	46.72	2.66	49.38	74.00	-24.62	peak
2 *	2483.5000	37.82	2.66	40.48	54.00	-13.52	AVG
3	2500.0000	45.61	2.80	48.41	74.00	-25.59	peak
4	2500.0000	36.52	2.80	39.32	54.00	-14.68	AVG

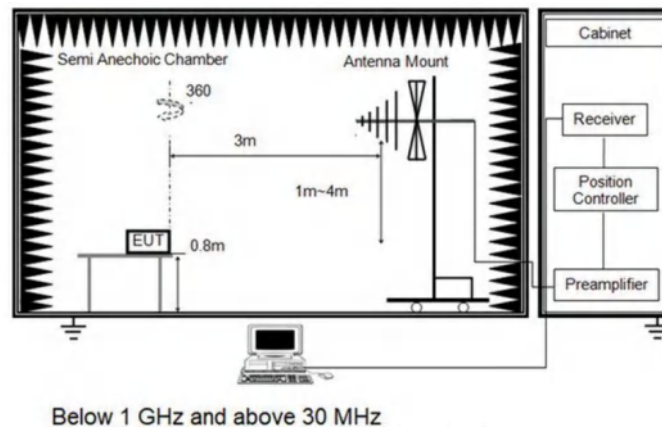
5.2.7. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	1. The EUT was setup and tested according to ANSI C63.10. 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5. Set to the maximum power setting and enable the EUT transmit continuously. 6. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.		

5.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4,TM5				
Final test mode:	TM1, TM2, TM3, TM4,TM5				

5.2.7.2. Test Setup Diagram



5.2.7.3. Test Result

Pass

5.2.7.4. Test Data

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found 11B mode CH01 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	35.7490	60.71	-31.76	28.95	40.00	-11.05	peak
2	51.3004	61.34	-29.36	31.98	40.00	-8.02	QP
3	107.1337	65.38	-29.96	35.42	43.50	-8.08	QP
4 *	213.7632	64.98	-28.62	36.36	43.50	-7.14	QP
5	308.9125	53.80	-25.87	27.93	46.00	-18.07	QP
6	919.2865	46.70	-14.36	32.34	46.00	-13.66	QP

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.5172	61.34	-31.92	29.42	40.00	-10.58	QP
2	53.6931	60.69	-29.91	30.78	40.00	-9.22	QP
3	87.4175	59.69	-33.28	26.41	40.00	-13.59	QP
4	180.0164	66.28	-30.75	35.53	43.50	-7.97	QP
5	354.1831	56.95	-24.54	32.41	46.00	-13.59	QP
6 *	737.0711	55.91	-16.27	39.64	46.00	-6.36	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

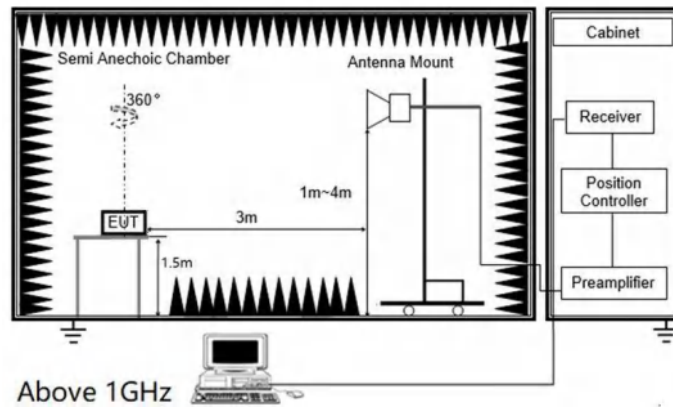
5.2.8. Radiated Spurious Emission (Above 1GHz)

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	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) 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:	22.2 °C	Humidity:	56.6 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4,TM5				
Final test mode:	TM1, TM2, TM3, TM4,TM5				

5.2.8.2. Test Setup Diagram



5.2.8.3. Test Result

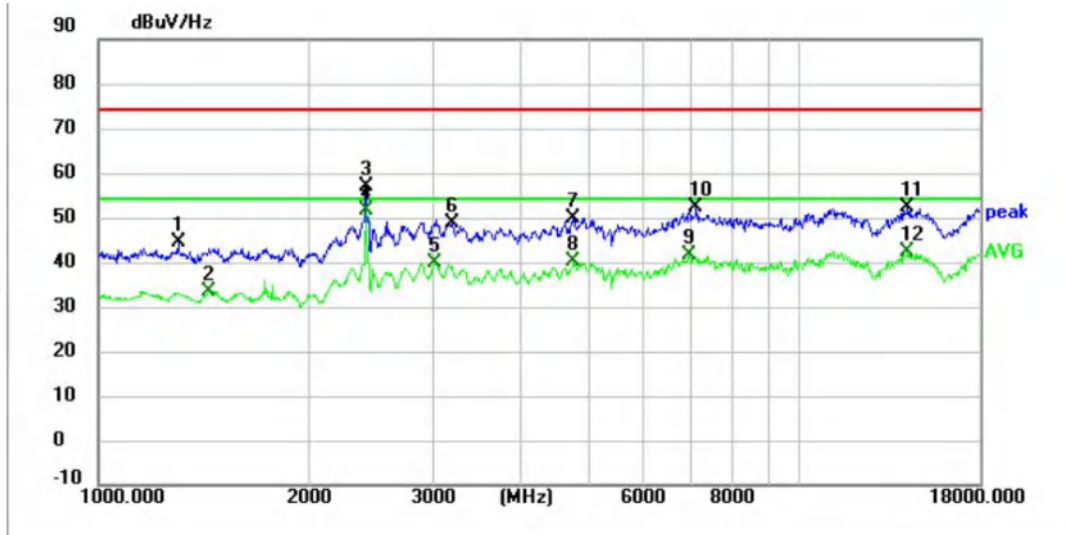
Pass

5.2.8.4. Test Data

For 1 GHz ~ 25 GHz

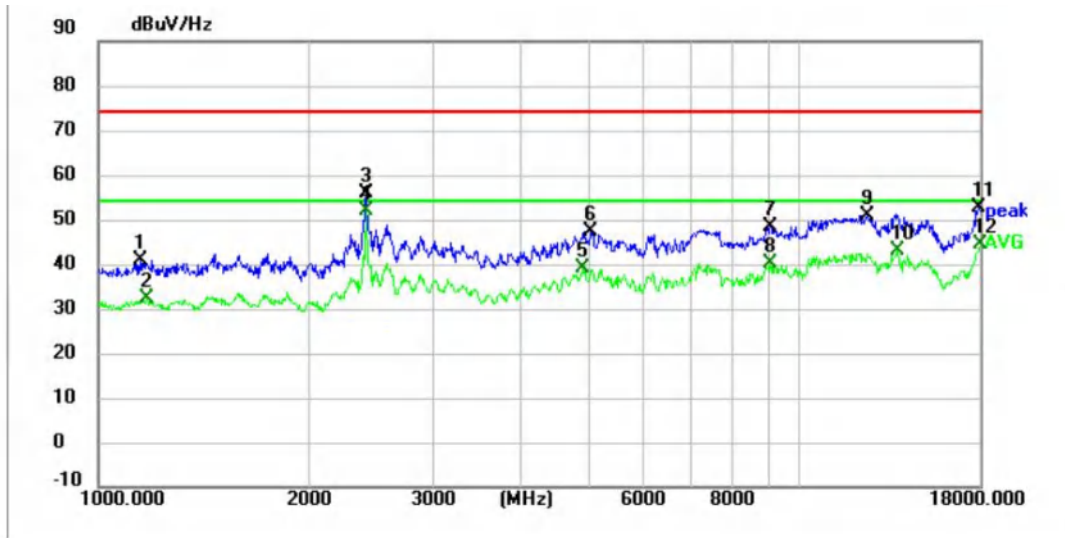
Have pre-scan all test channel, found 11B mode which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



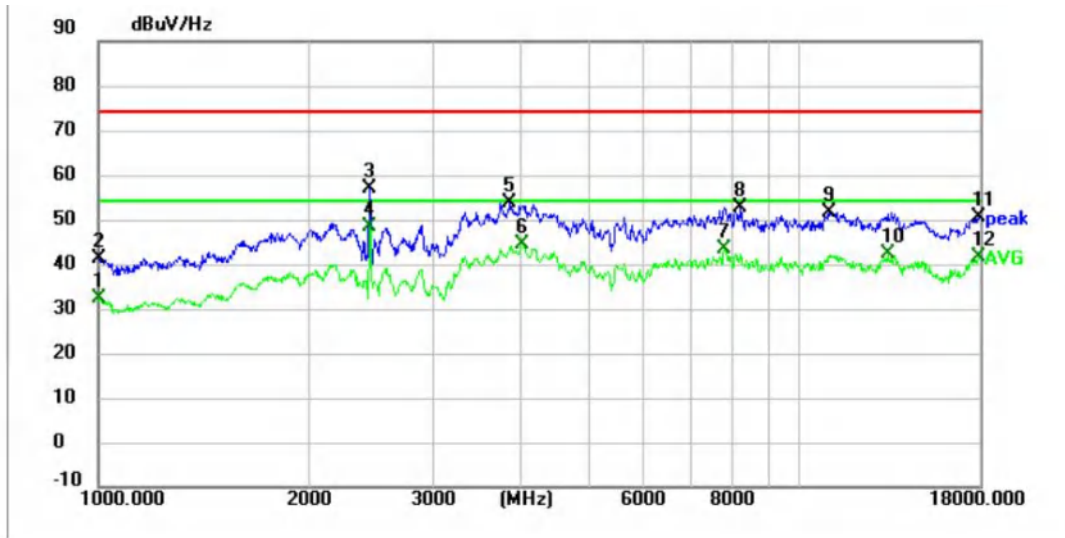
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1304.3000	45.92	-1.61	44.31	74.00	-29.69	peak
2	1440.3000	34.88	-1.39	33.49	54.00	-20.51	AVG
3	2412.7000	54.41	2.38	56.79	74.00	-17.21	peak
4 *	2412.7000	49.09	2.38	51.47	54.00	-2.53	AVG
5	3024.7000	33.62	6.11	39.73	54.00	-14.27	AVG
6	3189.6000	42.04	6.54	48.58	74.00	-25.42	peak
7	4746.8000	39.94	9.97	49.91	74.00	-24.09	peak
8	4750.2000	30.06	9.98	40.04	54.00	-13.96	AVG
9	6936.4000	20.60	20.88	41.48	54.00	-12.52	AVG
10	7099.6000	30.57	21.58	52.15	74.00	-21.85	peak
11	14220.9000	62.71	-10.54	52.17	74.00	-21.83	peak
12	14220.9000	52.69	-10.54	42.15	54.00	-11.85	AVG

Mode1 / Polarization: Vertical / CH: L



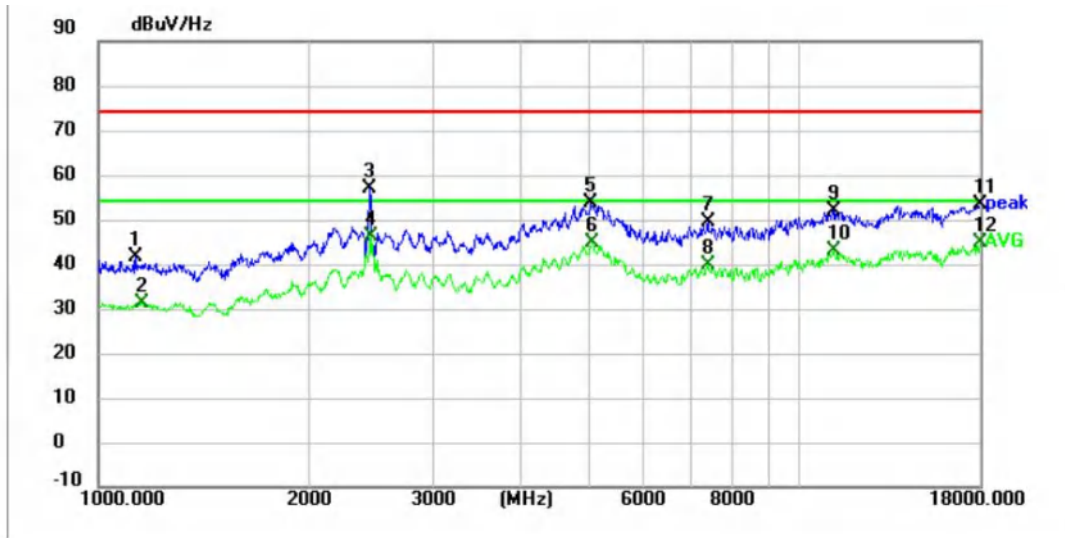
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1147.9000	42.50	-1.70	40.80	74.00	-33.20	peak
2	1175.1000	33.79	-1.62	32.17	54.00	-21.83	AVG
3	2412.7000	53.64	2.38	56.02	74.00	-17.98	peak
4 *	2412.7000	49.48	2.38	51.86	54.00	-2.14	AVG
5	4904.9000	27.51	11.43	38.94	54.00	-15.06	AVG
6	5034.1000	34.66	12.82	47.48	74.00	-26.52	peak
7	9097.1000	25.28	23.17	48.45	74.00	-25.55	peak
8	9097.1000	16.87	23.17	40.04	54.00	-13.96	AVG
9	12459.7000	23.15	27.65	50.80	74.00	-23.20	peak
10	13777.2000	54.27	-11.18	43.09	54.00	-10.91	AVG
11	17993.2000	61.70	-8.93	52.77	74.00	-21.23	peak
12	18000.0000	53.22	-8.90	44.32	54.00	-9.68	AVG

Mode1 / Polarization: Horizontal / CH: M



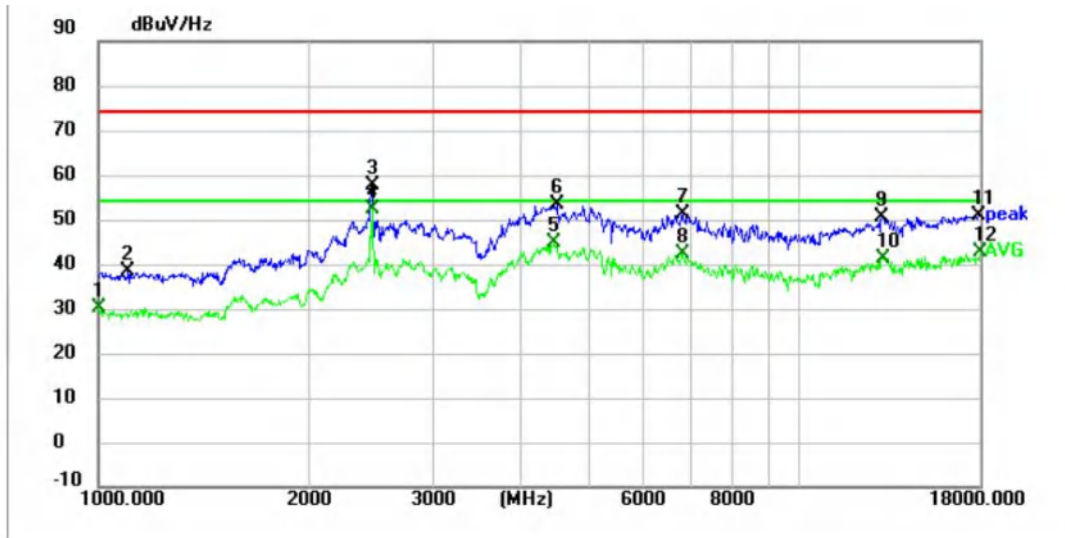
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1000.0000	34.23	-2.00	32.23	54.00	-21.77	AVG
2	1003.4000	43.32	-2.00	41.32	74.00	-32.68	peak
3	2434.8000	54.65	2.39	57.04	74.00	-16.96	peak
4 *	2439.9000	45.95	2.39	48.34	54.00	-5.66	AVG
5	3866.2000	46.73	7.05	53.78	74.00	-20.22	peak
6	4024.3000	37.27	7.30	44.57	54.00	-9.43	AVG
7	7811.9000	21.12	22.14	43.26	54.00	-10.74	AVG
8	8233.5000	29.99	22.76	52.75	74.00	-21.25	peak
9	10999.4000	23.63	28.10	51.73	74.00	-22.27	peak
10	13345.4000	53.84	-11.58	42.26	54.00	-11.74	AVG
11	17996.6000	59.36	-8.92	50.44	74.00	-23.56	peak
12	17996.6000	50.41	-8.92	41.49	54.00	-12.51	AVG

Mode1 / Polarization: Vertical / CH: M



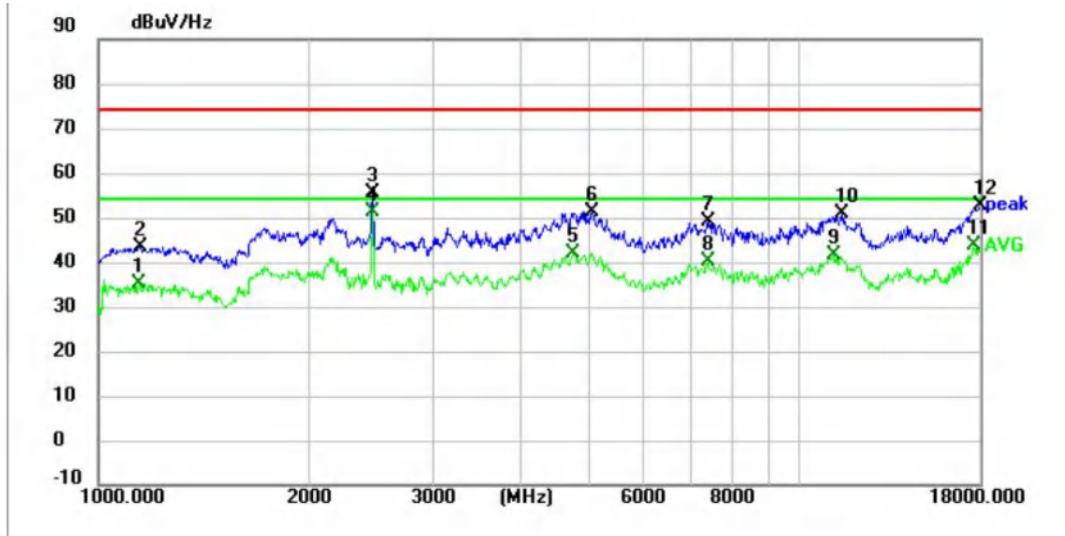
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1132.6000	43.31	-1.69	41.62	74.00	-32.38	peak
2	1153.0000	33.00	-1.69	31.31	54.00	-22.69	AVG
3	2439.9000	54.70	2.39	57.09	74.00	-16.91	peak
4 *	2443.3000	43.93	2.39	46.32	54.00	-7.68	AVG
5	5042.6000	40.75	12.94	53.69	74.00	-20.31	peak
6	5061.3000	31.69	13.03	44.72	54.00	-9.28	AVG
7	7400.5000	27.23	22.12	49.35	74.00	-24.65	peak
8	7400.5000	17.54	22.12	39.66	54.00	-14.34	AVG
9	11143.9000	24.03	28.11	52.14	74.00	-21.86	peak
10	11143.9000	15.05	28.11	43.16	54.00	-10.84	AVG
11	18000.0000	62.23	-8.90	53.33	74.00	-20.67	peak
12	18000.0000	53.73	-8.90	44.83	54.00	-9.17	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1000.0000	32.31	-2.00	30.31	54.00	-23.69	AVG
2	1103.7000	40.21	-1.67	38.54	74.00	-35.46	peak
3	2462.0000	55.12	2.49	57.61	74.00	-16.39	peak
4 *	2462.0000	49.75	2.49	52.24	54.00	-1.76	AVG
5	4469.7000	35.75	8.95	44.70	54.00	-9.30	AVG
6	4495.2000	44.51	8.95	53.46	74.00	-20.54	peak
7	6805.5000	31.07	20.14	51.21	74.00	-22.79	peak
8	6805.5000	22.29	20.14	42.43	54.00	-11.57	AVG
9	13071.7000	62.58	-12.09	50.49	74.00	-23.51	peak
10	13172.0000	53.38	-11.96	41.42	54.00	-12.58	AVG
11	17991.5000	59.99	-8.94	51.05	74.00	-22.95	peak
12	18000.0000	51.69	-8.90	42.79	54.00	-11.21	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1142.8000	36.97	-1.70	35.27	54.00	-18.73	AVG
2	1146.2000	45.04	-1.70	43.34	74.00	-30.66	peak
3	2462.0000	53.11	2.49	55.60	74.00	-18.40	peak
4 *	2462.0000	48.84	2.49	51.33	54.00	-2.67	AVG
5	4750.2000	31.97	9.98	41.95	54.00	-12.05	AVG
6	5064.7000	38.28	13.03	51.31	74.00	-22.69	peak
7	7400.5000	26.89	22.12	49.01	74.00	-24.99	peak
8	7400.5000	18.10	22.12	40.22	54.00	-13.78	AVG
9	11142.2000	13.35	28.11	41.46	54.00	-12.54	AVG
10	11444.8000	22.54	28.28	50.82	74.00	-23.18	peak
11	17677.0000	54.49	-10.71	43.78	54.00	-10.22	AVG
12	18000.0000	61.62	-8.90	52.72	74.00	-21.28	peak

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 (54dBuV/m) for above 1GHz.

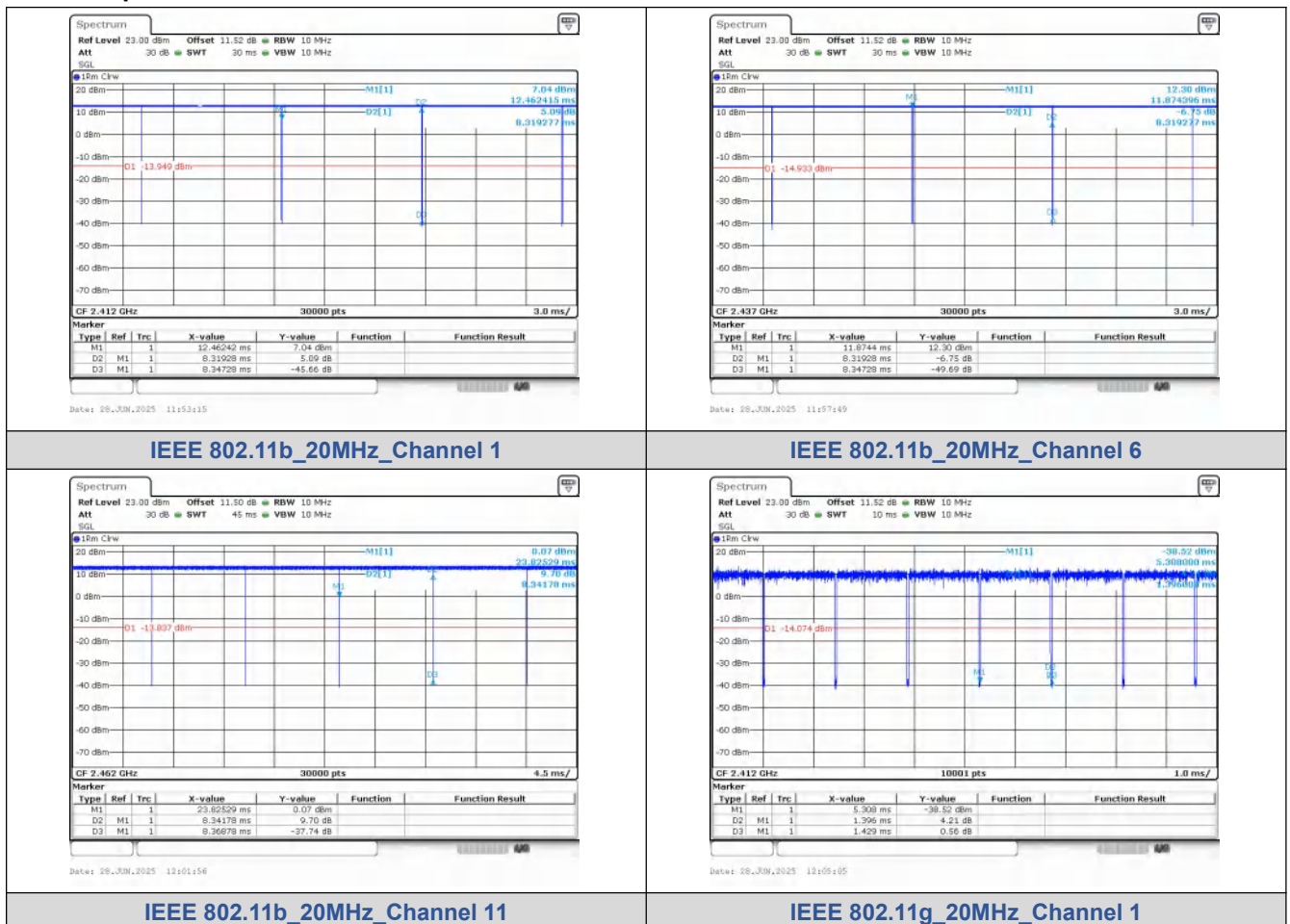
6. Appendix Report

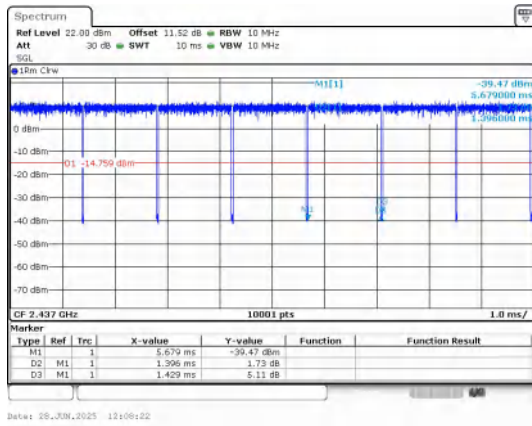
6.1. Duty Cycle

Test Result

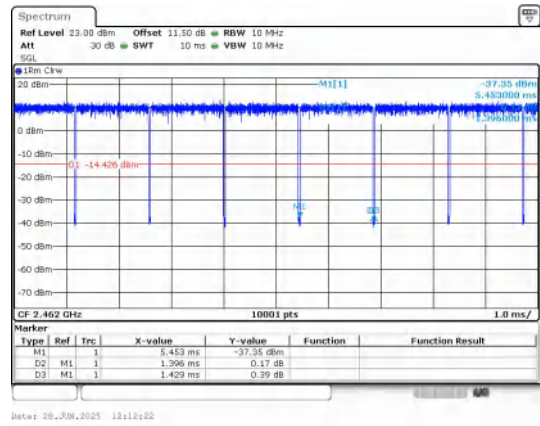
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.347	99.66	0.9966	0.0148	0.1202
		6		8.319	8.347	99.66	0.9966	0.0148	0.1202
		11		8.342	8.369	99.68	0.9968	0.0139	0.1199
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.336	97.60	0.9760	0.1055	0.7669
		6		1.304	1.337	97.53	0.9753	0.1086	0.7669
		11		1.293	1.326	97.49	0.9749	0.1104	0.7734
IEEE 802.11n_40		3	0.650	0.684	95.12	0.9512	0.2173	1.5385	
		6	0.650	0.684	95.06	0.9506	0.22	1.5385	
		9	0.650	0.683	95.12	0.9512	0.2173	1.5385	

Test Graphs

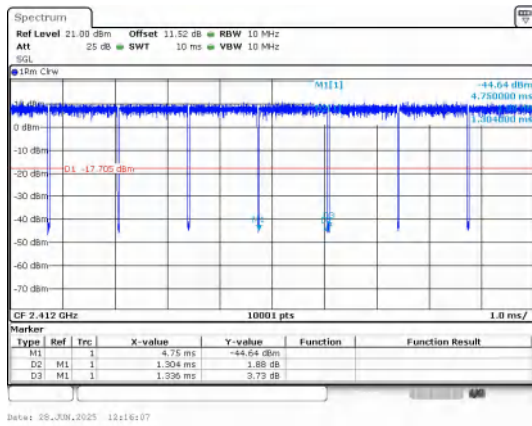




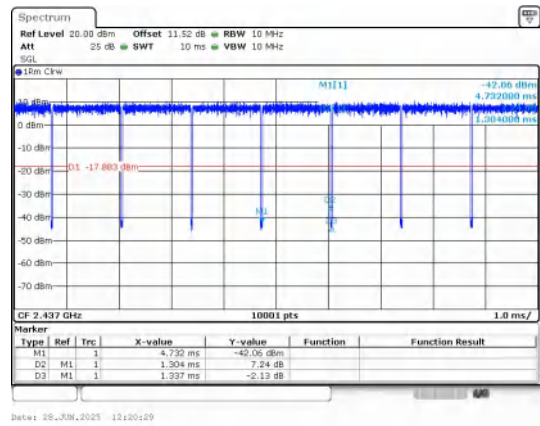
IEEE 802.11g_20MHz_Channel 6



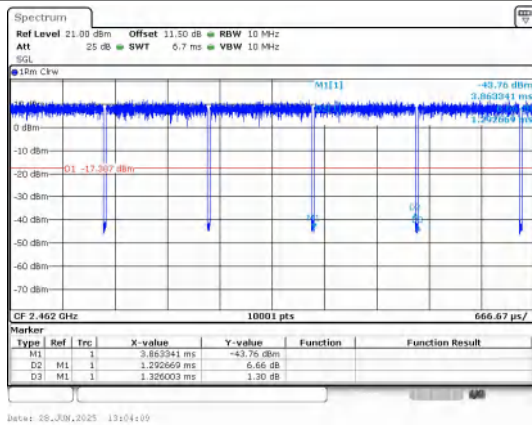
IEEE 802.11g_20MHz_Channel 11



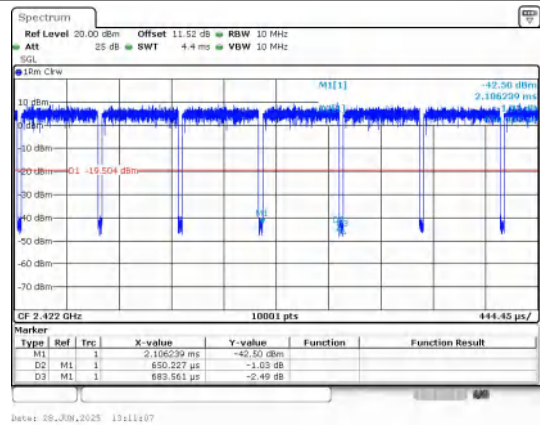
IEEE 802.11n_20MHz_Channel 1



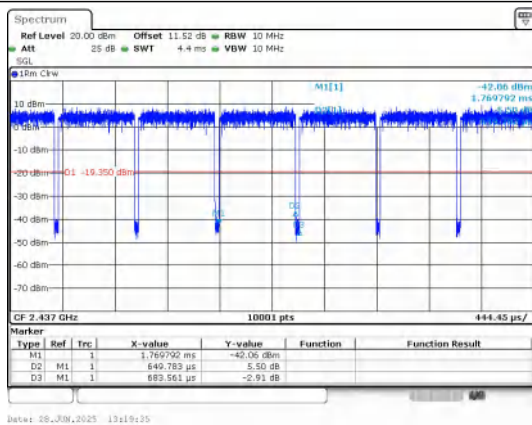
IEEE 802.11n_20MHz_Channel 6



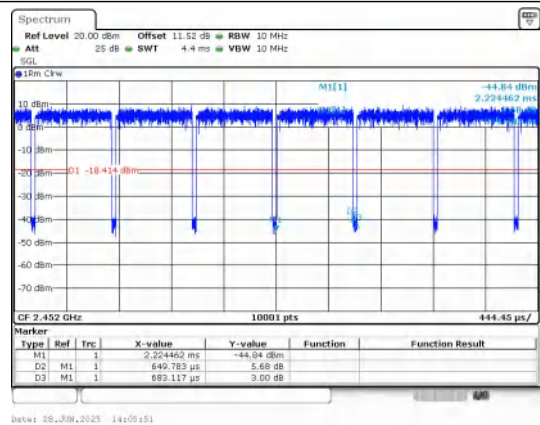
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3

IEEE 802.11n_40MHz_Channel 6

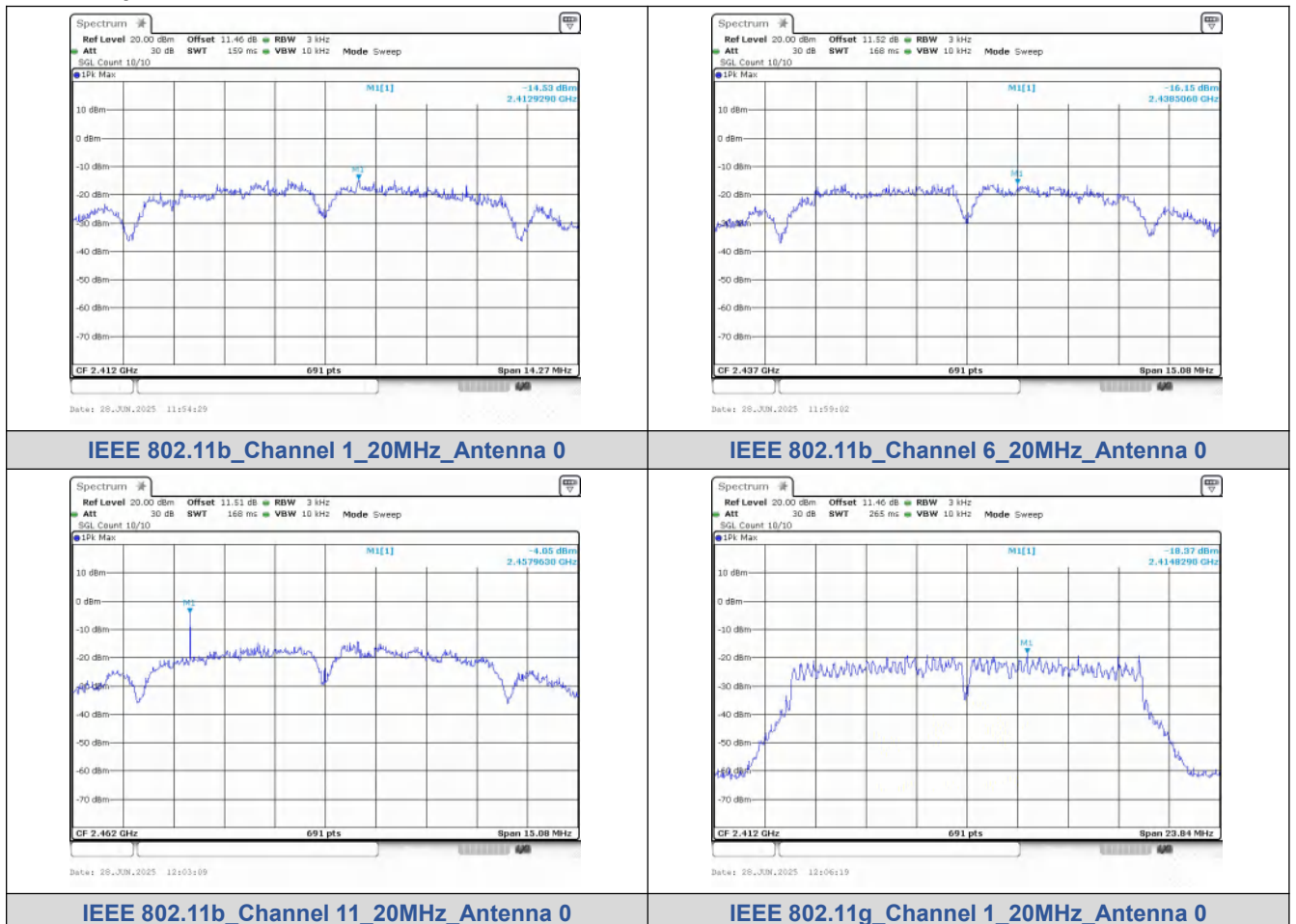
IEEE 802.11n_40MHz_Channel 9

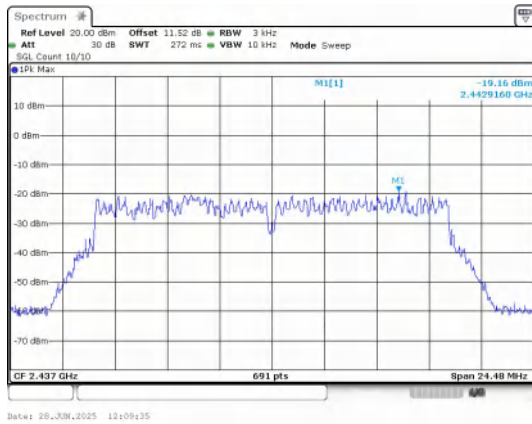
6.2. Power Spectral Density

Test Result

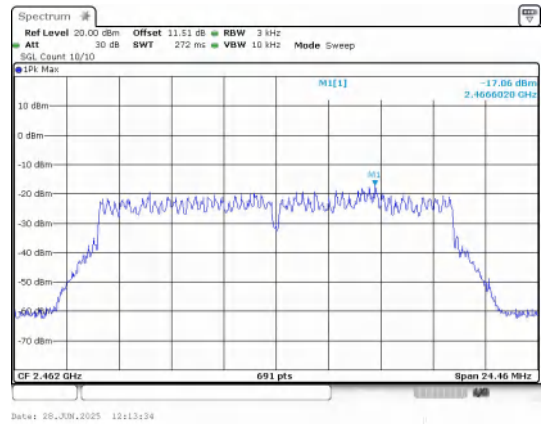
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-14.530	≤8	PASS
	6	-16.150		PASS
	11	-4.050		PASS
IEEE 802.11g	1	-18.370		PASS
	6	-19.160		PASS
	11	-17.060		PASS
IEEE 802.11n_20	1	-20.140		PASS
	6	-21.300		PASS
	11	-19.130		PASS
IEEE 802.11n_40	3	-22.930		PASS
	6	-23.480		PASS
	9	-22.910		PASS

Test Graphs

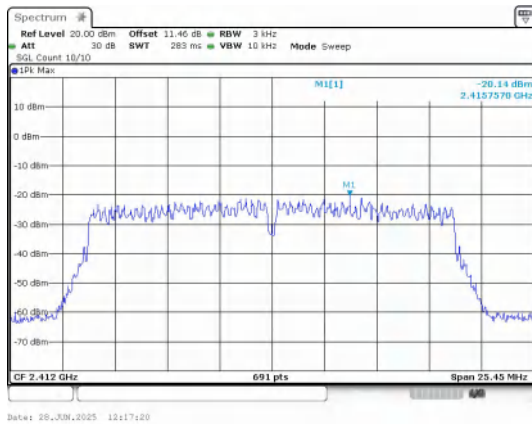




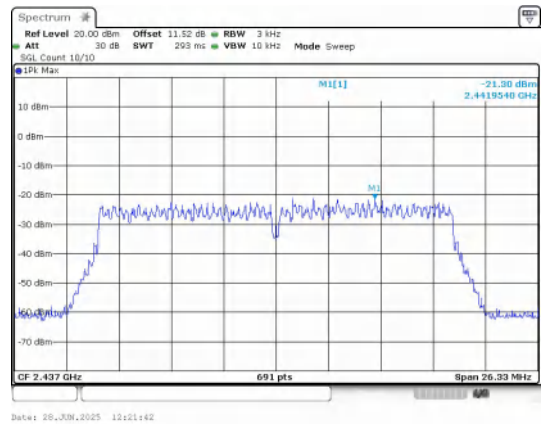
IEEE 802.11g_Channel 6_20MHz_Antenna 0



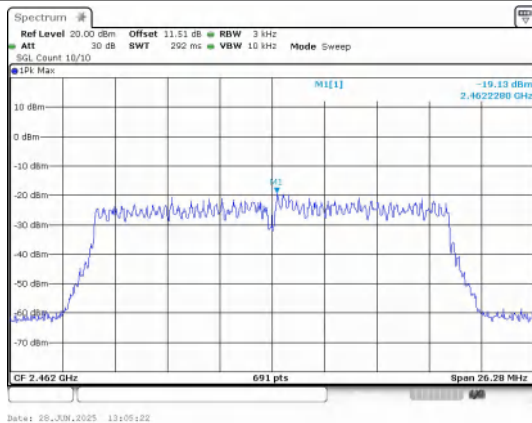
IEEE 802.11g_Channel 11_20MHz_Antenna 0



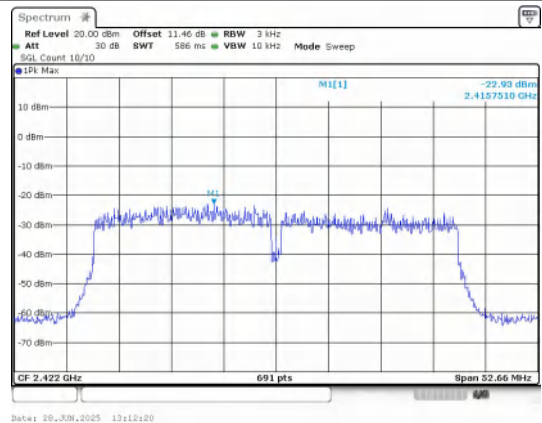
IEEE 802.11n_Channel 1_20MHz_Antenna 0



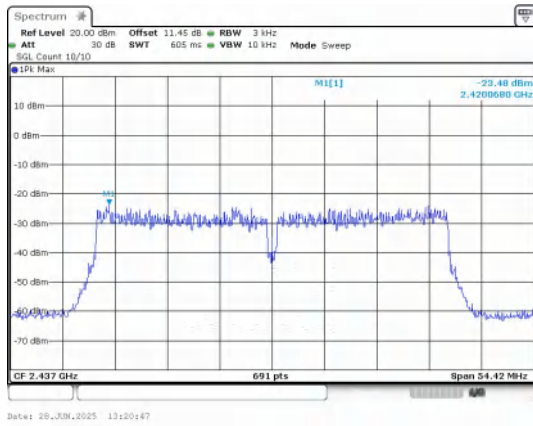
IEEE 802.11n_Channel 6_20MHz_Antenna 0



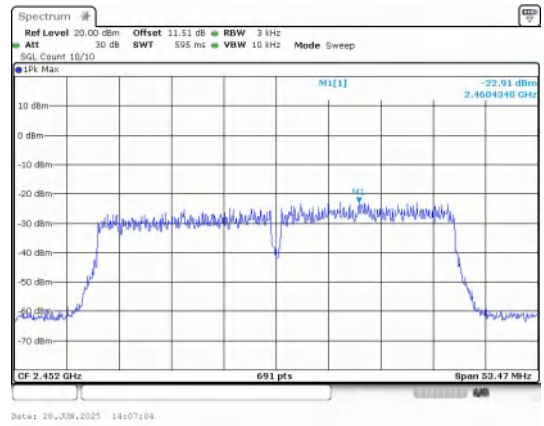
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



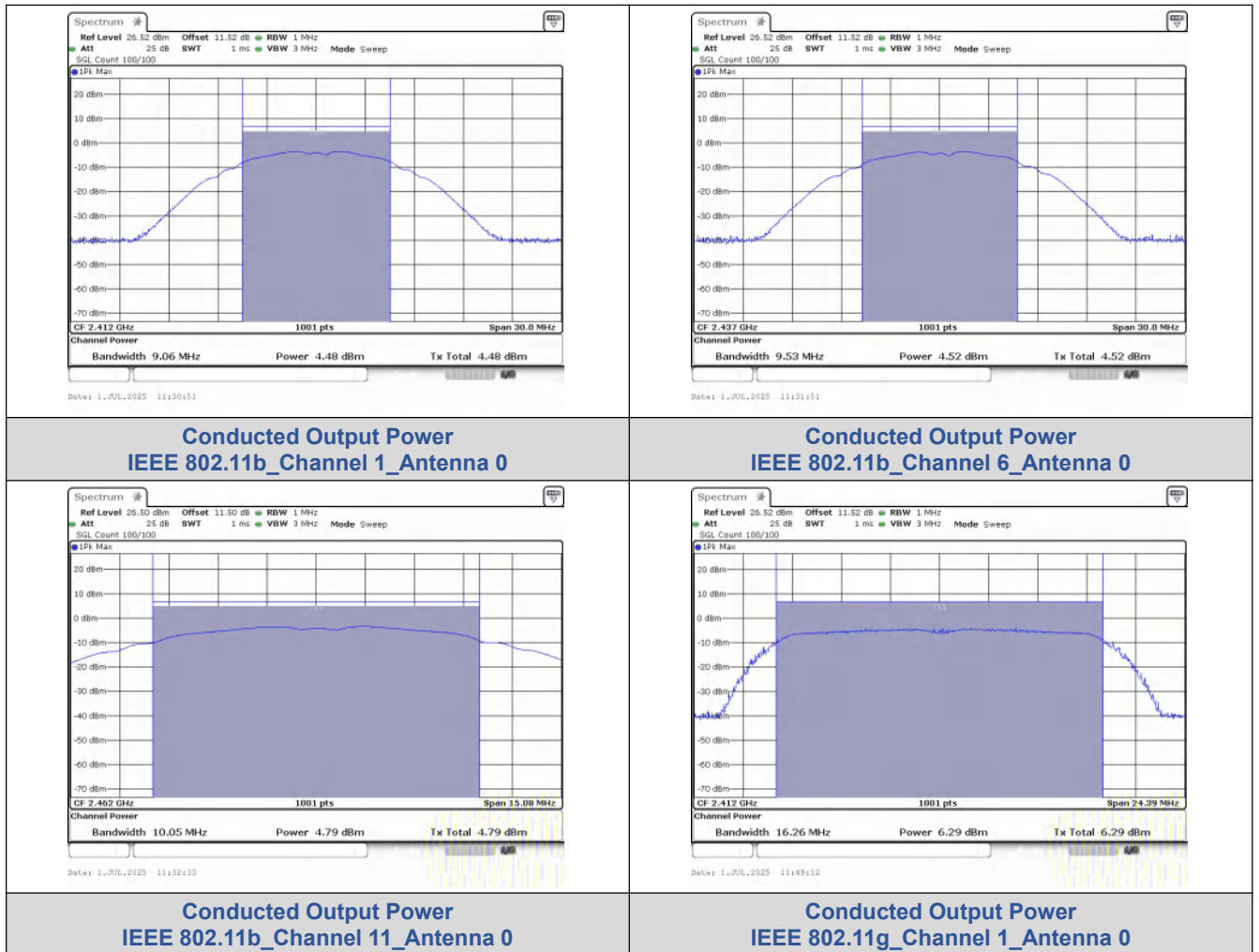
IEEE 802.11n_Channel 9_40MHz_Antenna 0

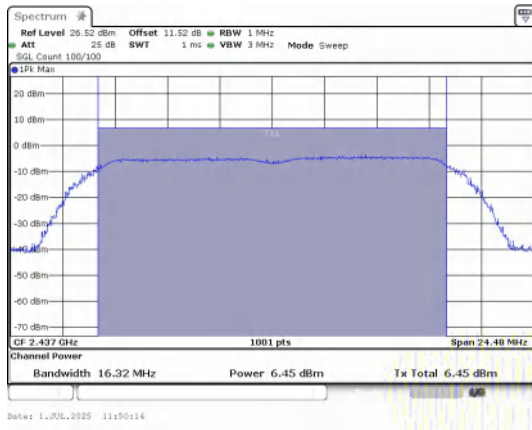
6.3. Conducted Output Power

Test Result

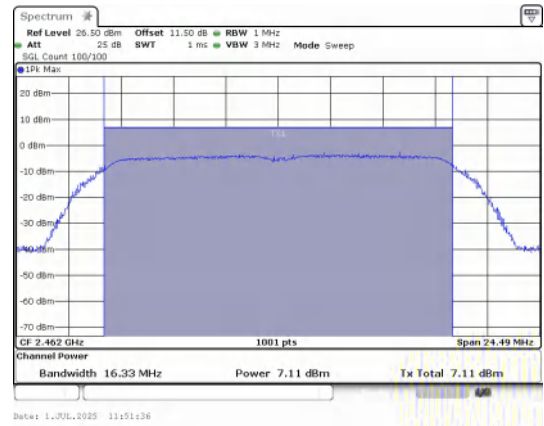
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	4.48	≤30	PASS
	6	4.52	≤30	PASS
	11	4.79	≤30	PASS
IEEE 802.11g	1	6.29	≤30	PASS
	6	6.45	≤30	PASS
	11	7.11	≤30	PASS
IEEE 802.11n_20	1	5.82	≤30	PASS
	6	6.02	≤30	PASS
	11	6.43	≤30	PASS
IEEE 802.11n_40	3	6.04	≤30	PASS
	6	6.16	≤30	PASS
	9	6.44	≤30	PASS

Test Graphs

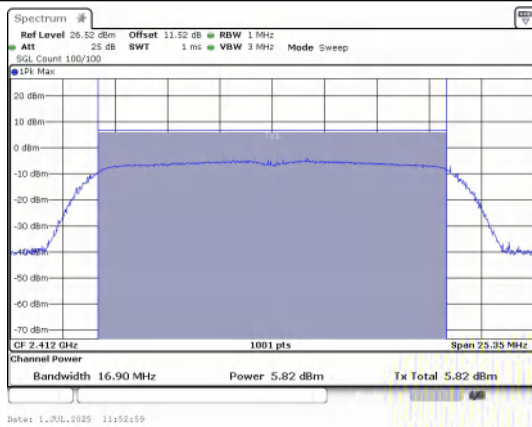




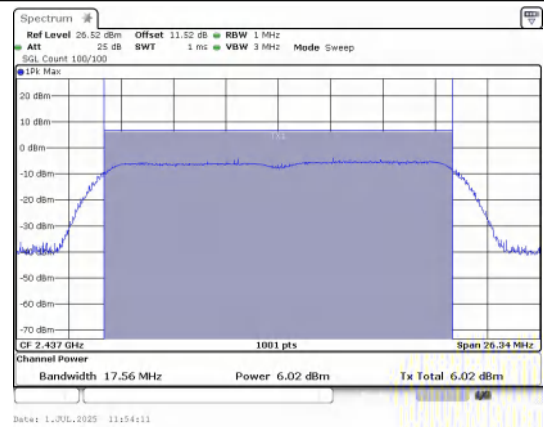
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**



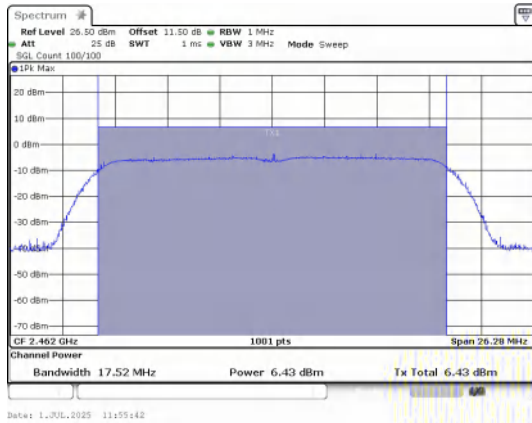
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0**



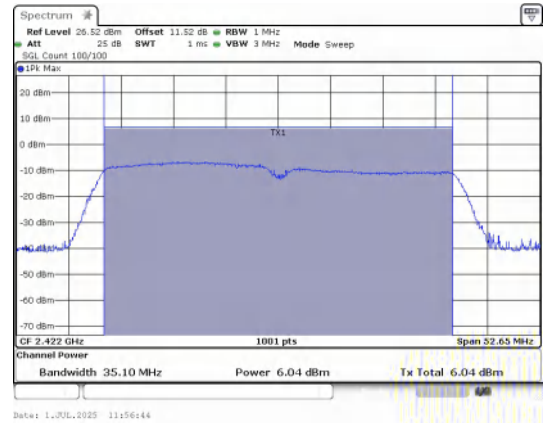
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**



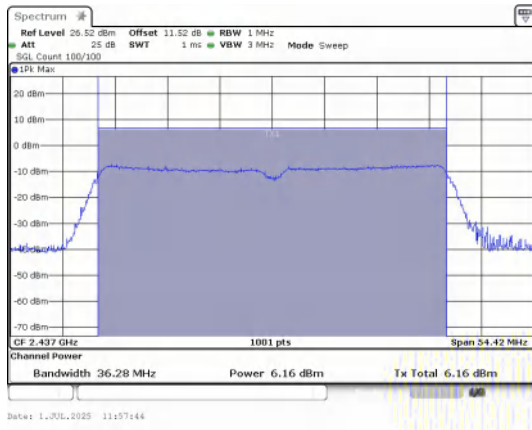
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**



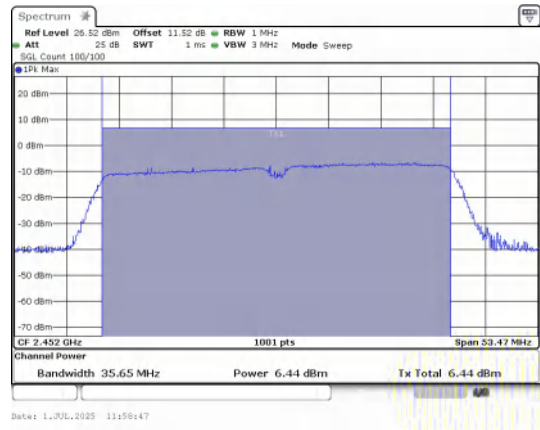
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0**



**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 0**



**Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 0**



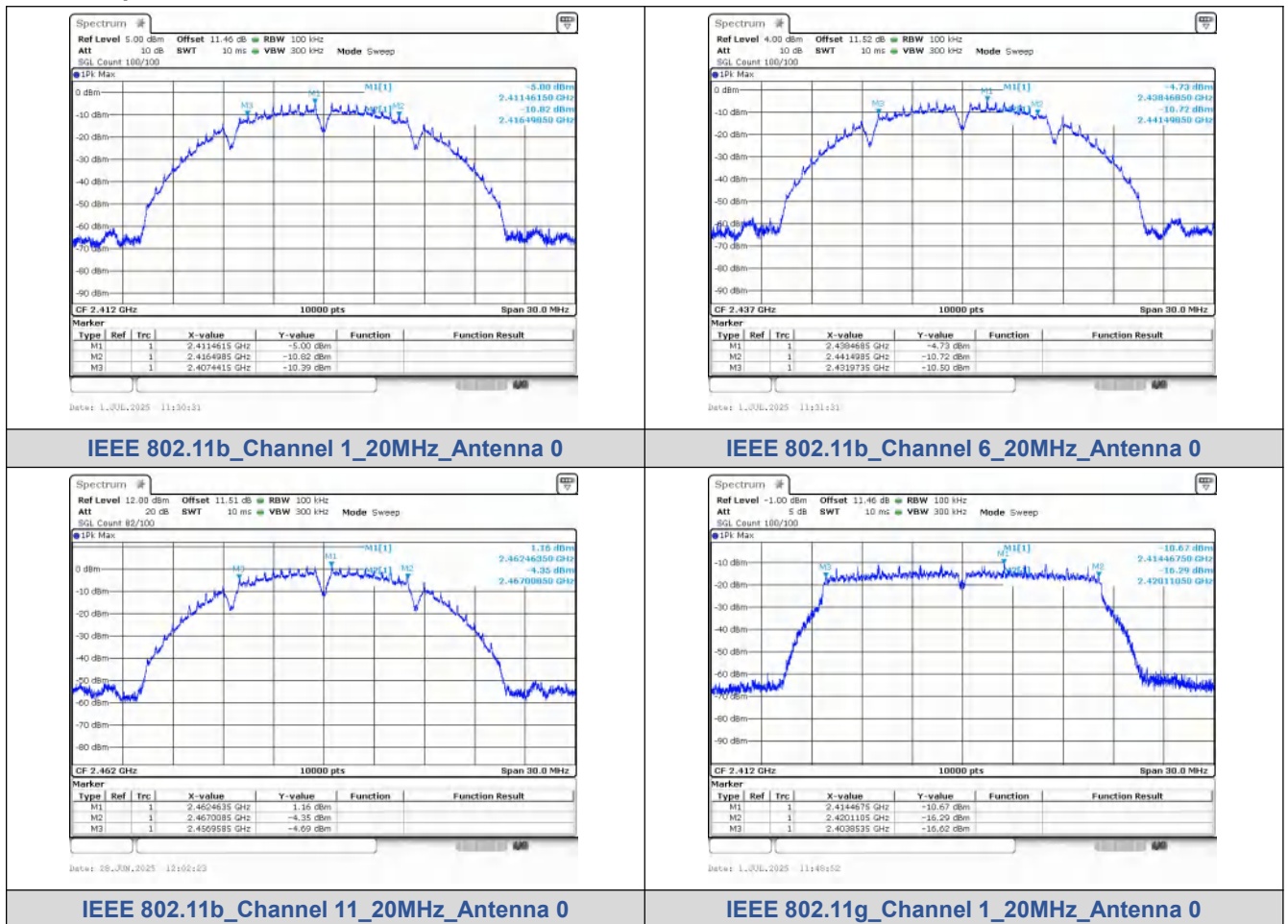
**Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 0**

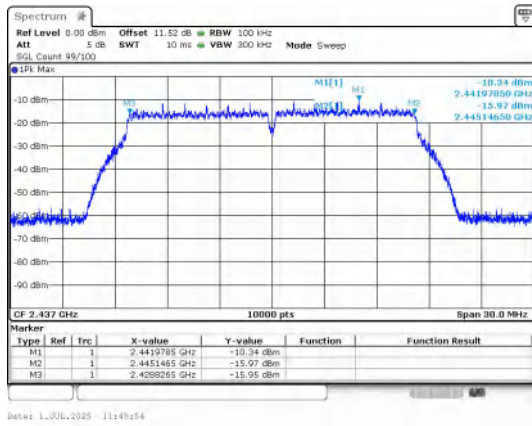
6.4. 6dB Bandwidth

Test Result

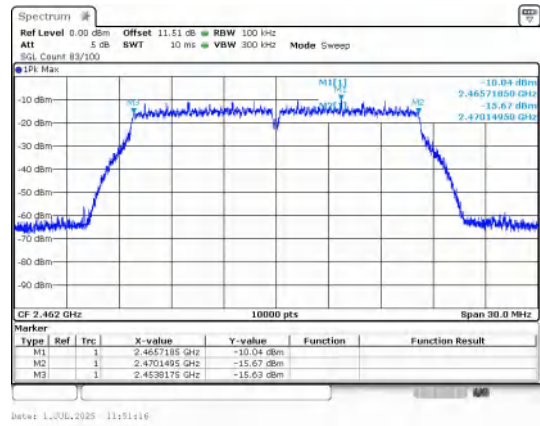
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.060	≥0.5	PASS
	6		2437	9.530		PASS
	11		2462	10.05		PASS
IEEE 802.11g	1		2412	16.26		PASS
	6		2437	16.32		PASS
	11		2462	16.33		PASS
IEEE 802.11n_20	1		2412	16.90		PASS
	6		2437	17.56		PASS
	11		2462	17.52		PASS
IEEE 802.11n_40	3		2422	35.10		PASS
	6		2437	36.28		PASS
	9		2452	35.65		PASS

Test Graphs

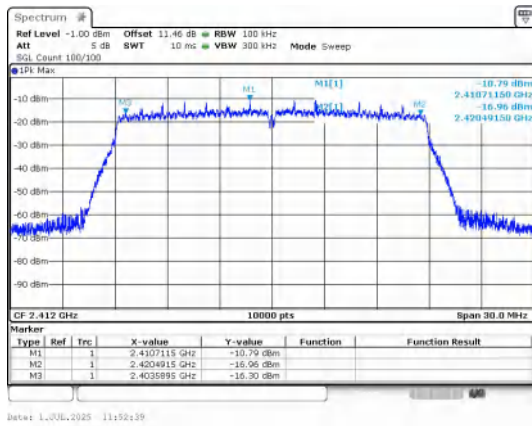




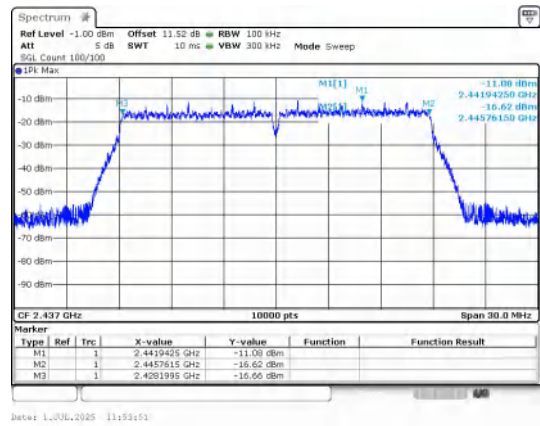
IEEE 802.11g_Channel 6_20MHz_Antenna 0



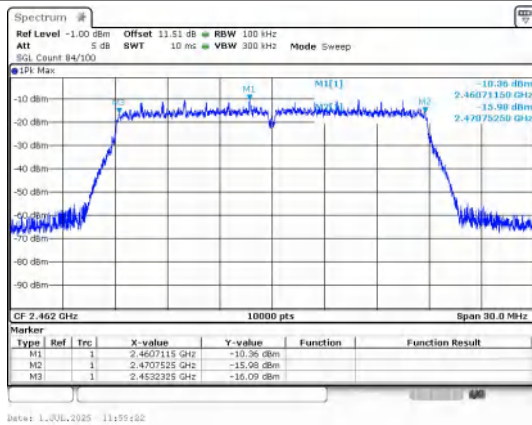
IEEE 802.11g_Channel 11_20MHz_Antenna 0



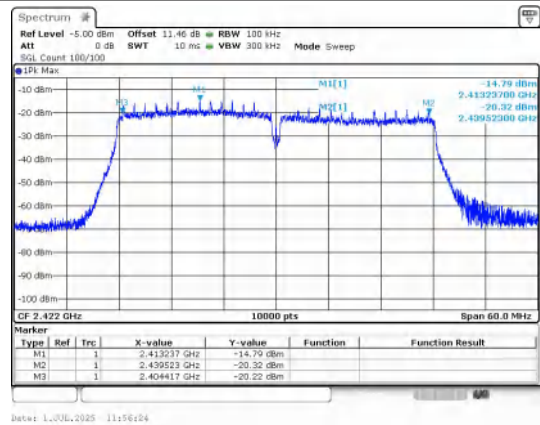
IEEE 802.11n_Channel 1_20MHz_Antenna 0



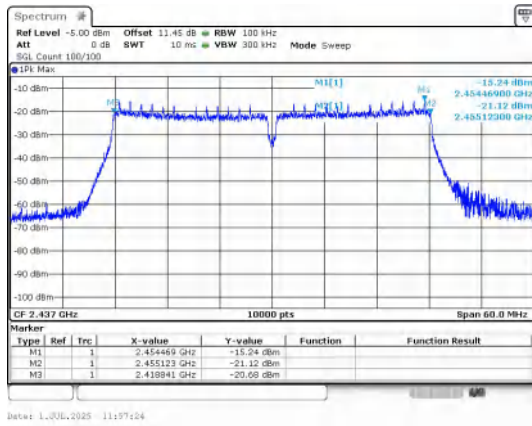
IEEE 802.11n_Channel 6_20MHz_Antenna 0



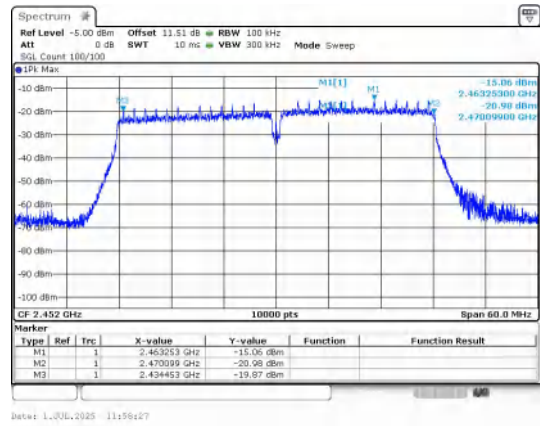
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



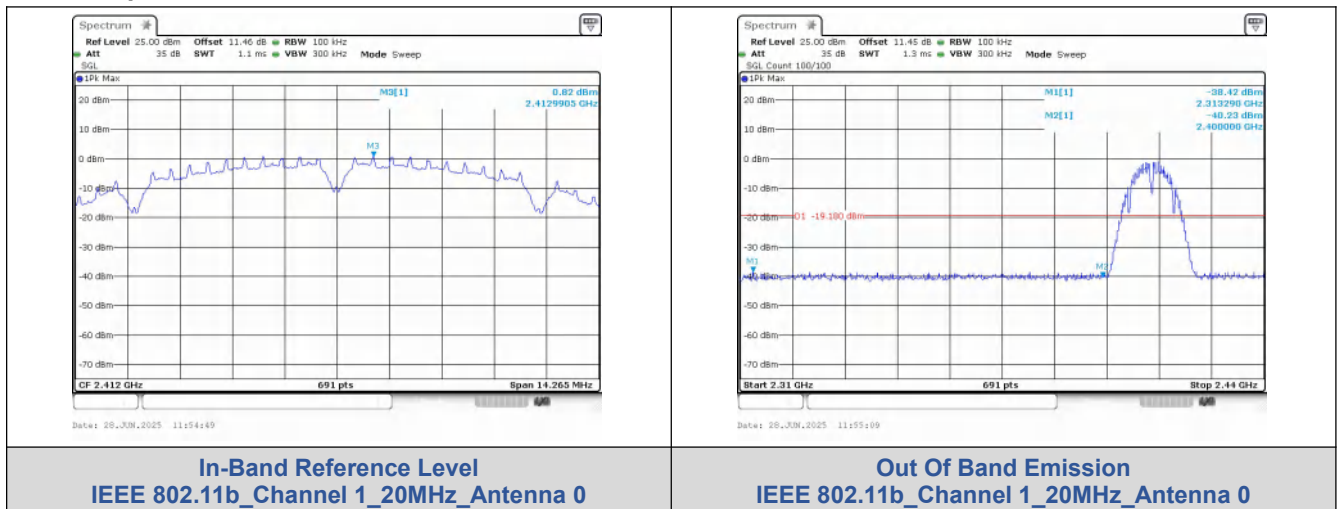
IEEE 802.11n_Channel 9_40MHz_Antenna 0

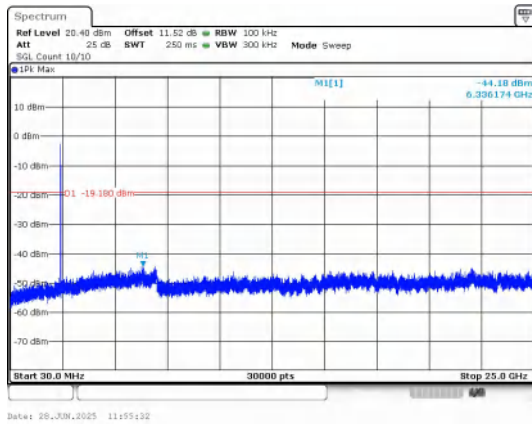
6.5. Conducted Out Of Band Emission

Test Result

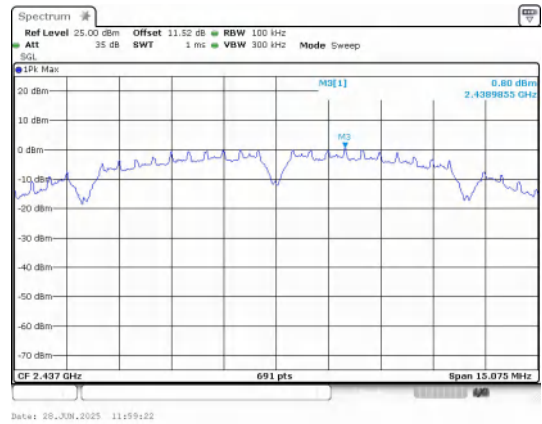
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	0	2313.29	-38.420	-19.18	-19.240	PASS	
			2400.00	-40.230	-19.18	-21.050	PASS	
			6336.20	-44.182	-19.18	-25.002	PASS	
	6		21989.0	-43.647	-19.2	-24.447	PASS	
			11	2483.50	-39.680	-18.37	-21.310	PASS
				21984.0	-44.427	-18.37	-26.057	PASS
IEEE 802.11g	1		2388.36	-37.711	-22.54	-15.171	PASS	
			2400.00	-40.060	-22.54	-17.520	PASS	
			22648.2	-44.781	-22.54	-22.241	PASS	
	6		6123.10	-44.268	-23.46	-20.808	PASS	
			11	2483.50	-39.000	-22.74	-16.260	PASS
				6969.58	-43.828	-22.74	-21.088	PASS
IEEE 802.11n_20	1		2383.09	-37.963	-24.26	-13.703	PASS	
			2400.00	-39.980	-24.26	-15.720	PASS	
			6314.50	-44.307	-24.26	-20.047	PASS	
	6		15910.5	-44.474	-24.75	-19.724	PASS	
			11	2483.50	-39.150	-24.06	-15.090	PASS
				6546.75	-43.989	-24.06	-19.929	PASS
IEEE 802.11n_40	3		2378.95	-37.914	-28.29	-9.624	PASS	
			2400.00	-40.110	-28.29	-11.820	PASS	
			22052.3	-44.393	-28.29	-16.103	PASS	
	6		6001.58	-44.044	-28.52	-15.524	PASS	
			9	2483.50	-39.260	-28.27	-10.990	PASS
				22022.3	-43.401	-28.27	-15.131	PASS

Test Graphs

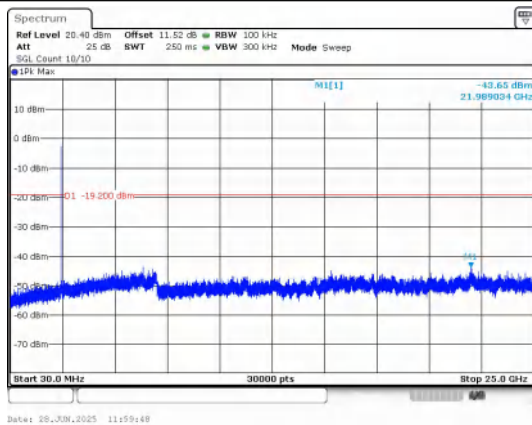




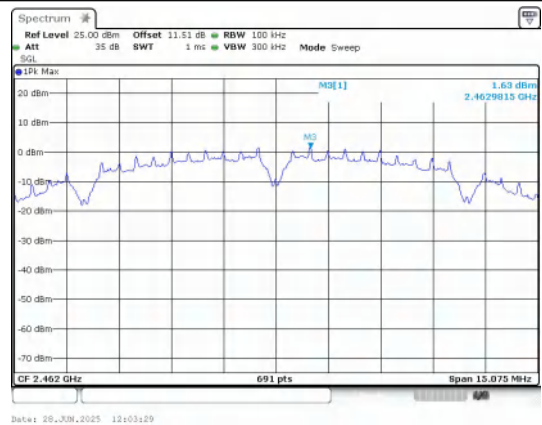
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



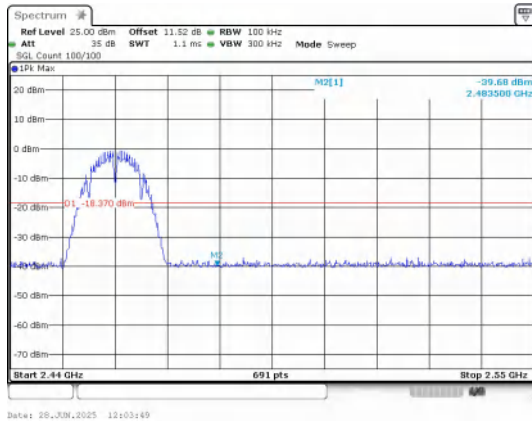
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



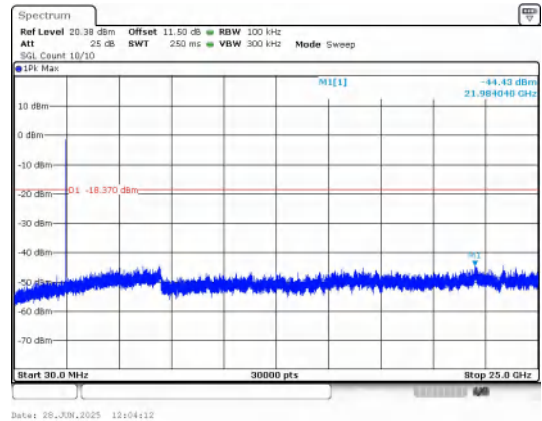
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



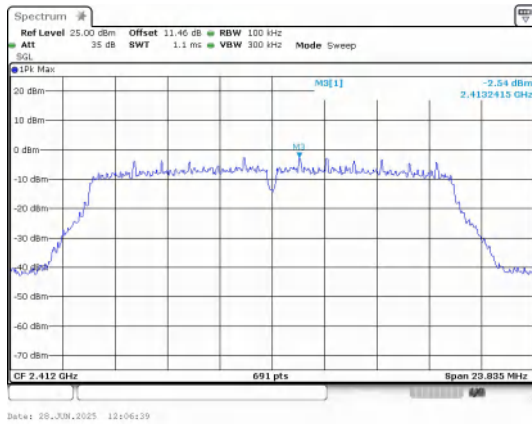
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



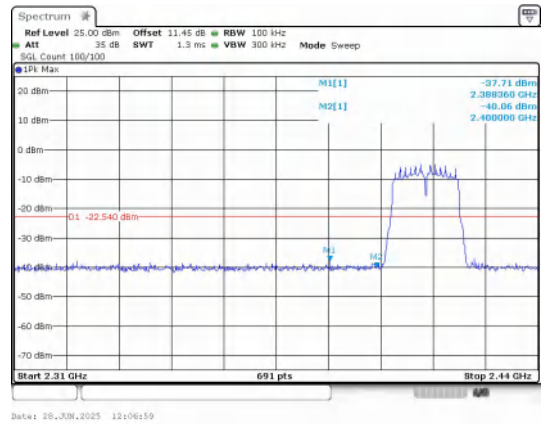
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



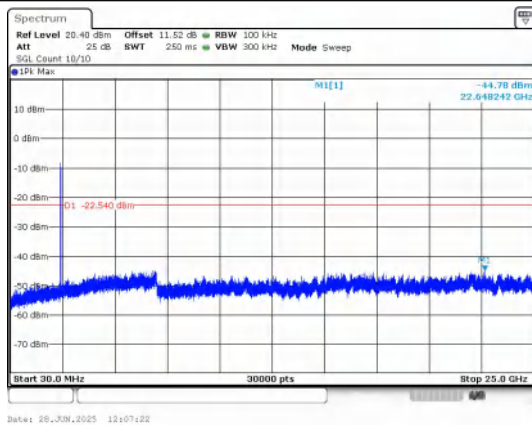
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



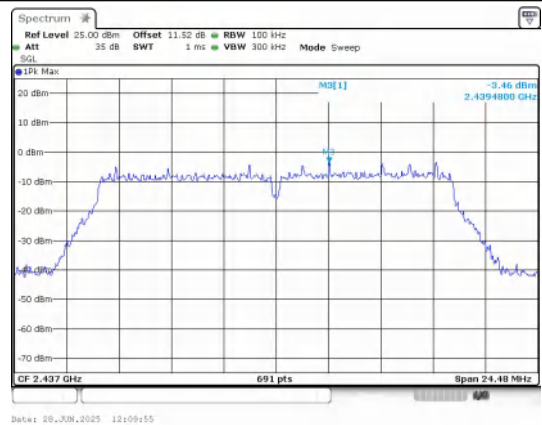
**In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



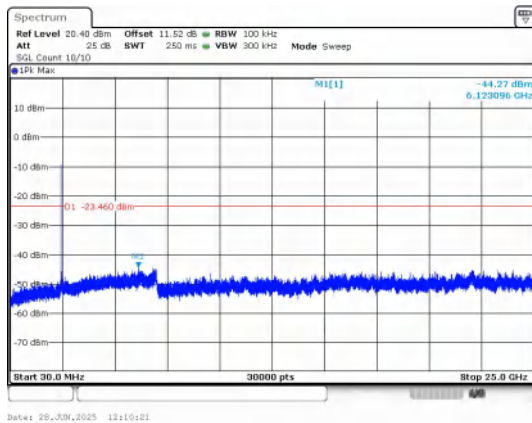
**Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



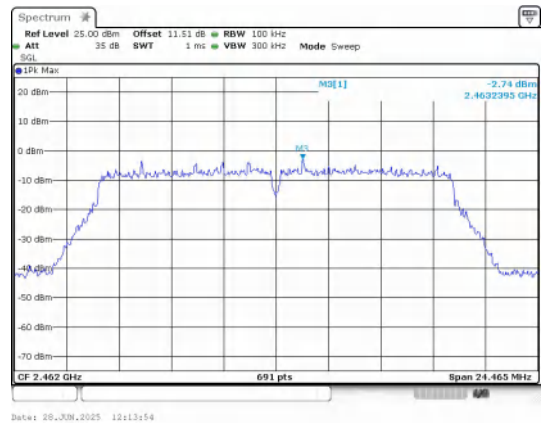
**30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0**



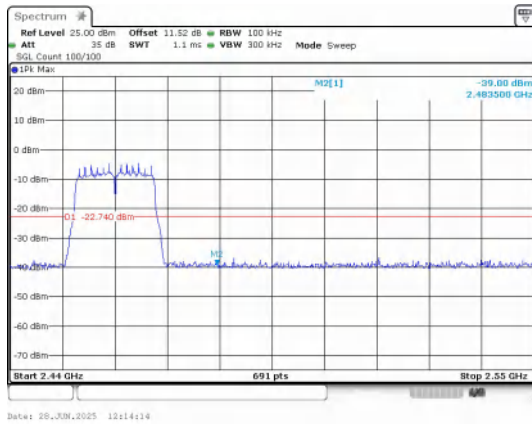
**In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0**



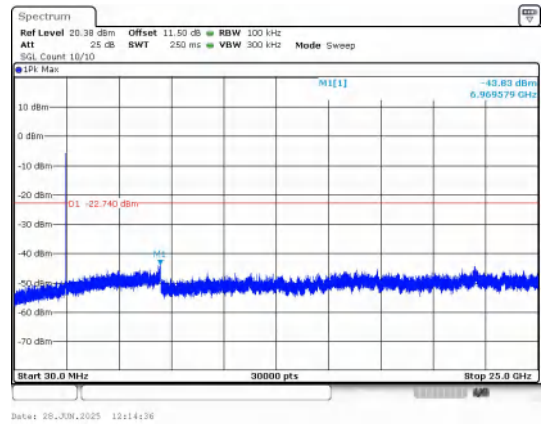
**30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0**



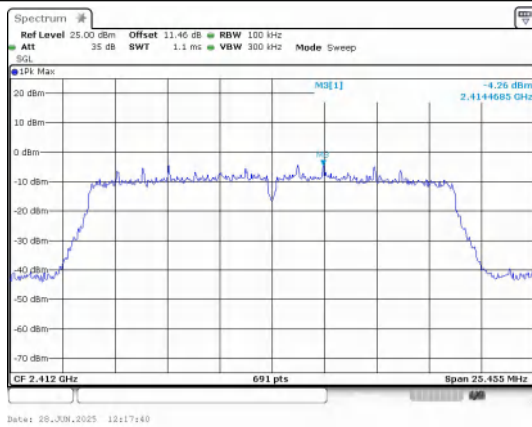
**In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0**



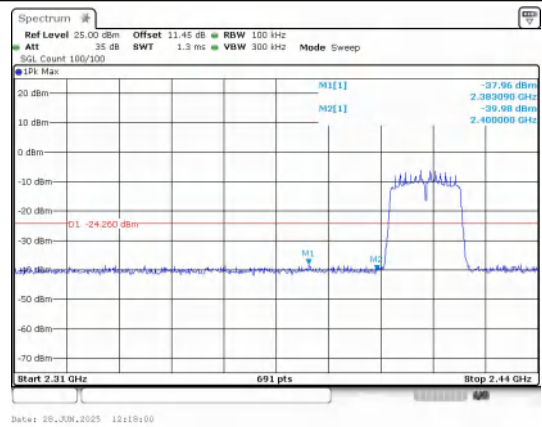
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



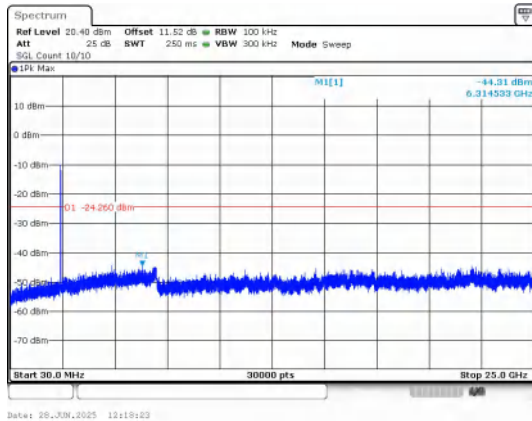
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



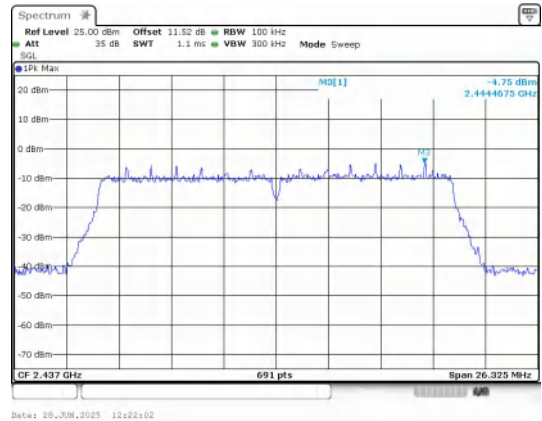
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



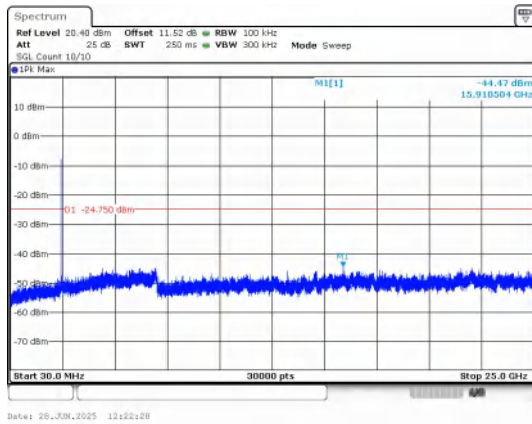
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



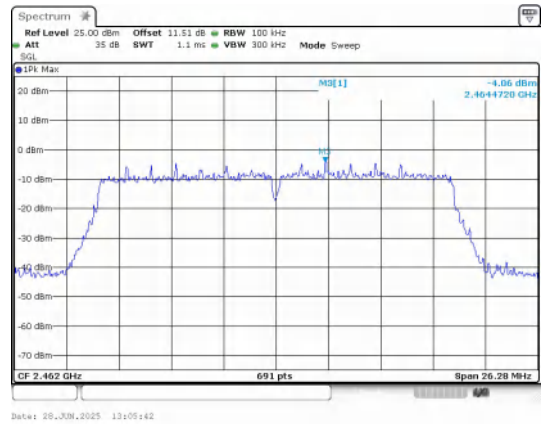
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



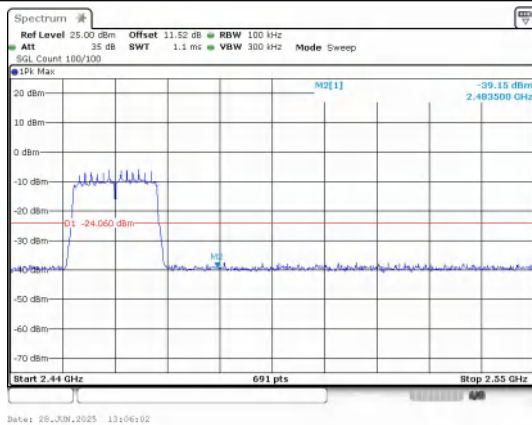
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



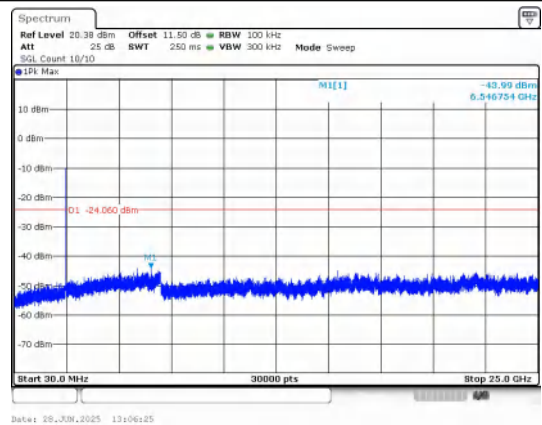
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



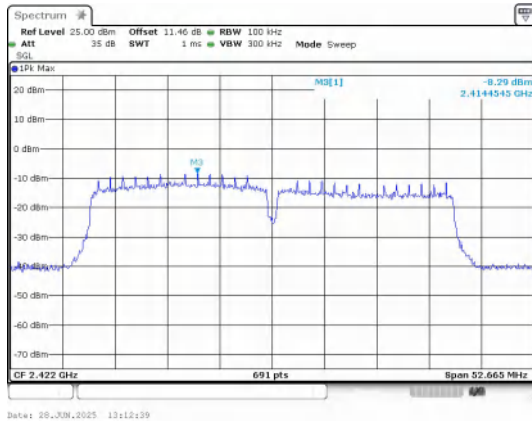
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



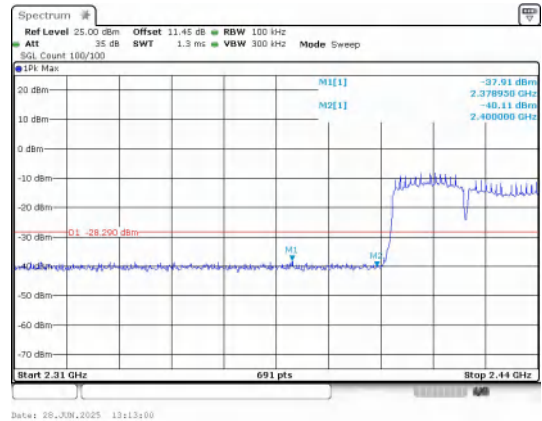
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



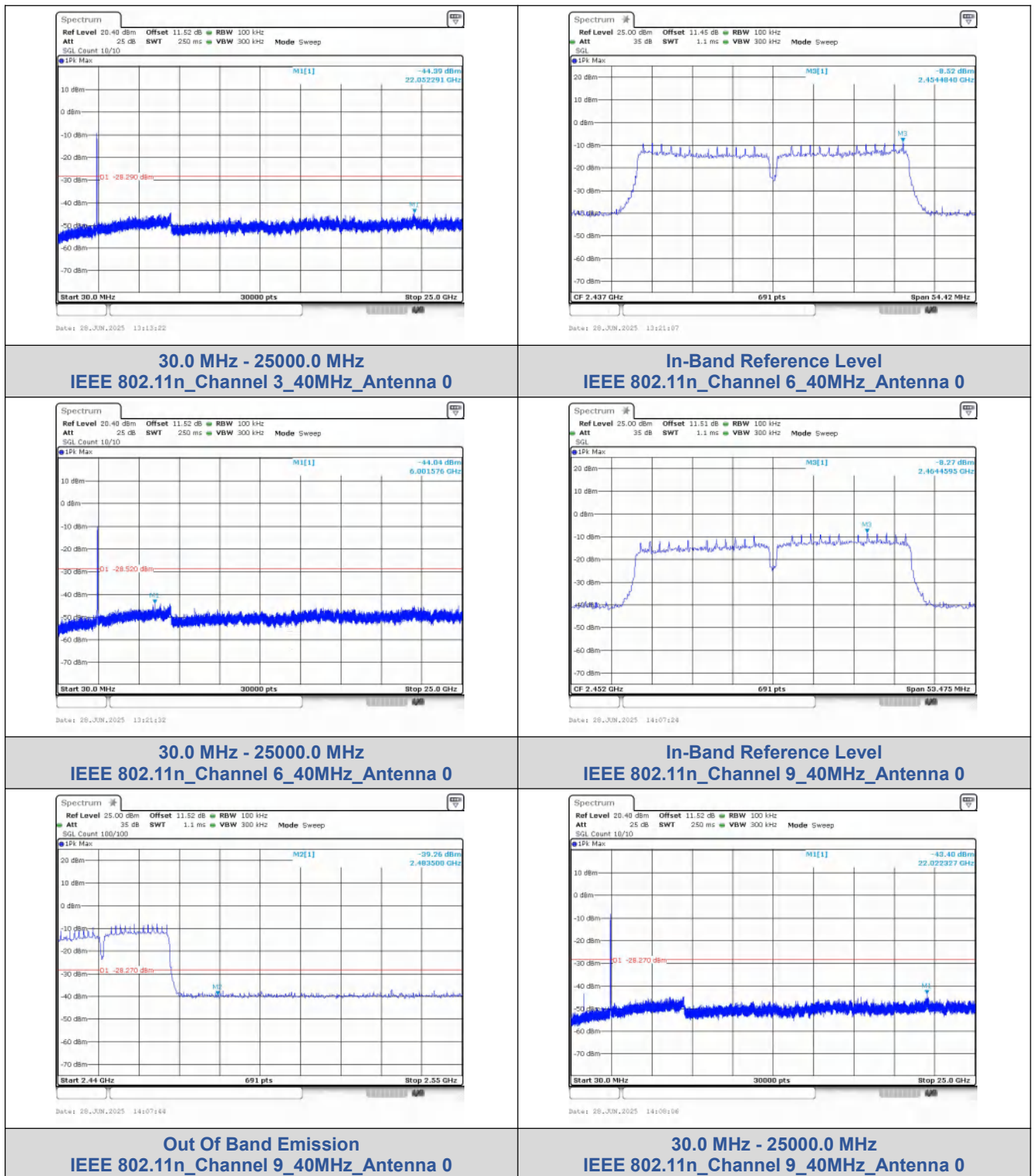
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



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