TEST REPORT

Report No.	CISRR250704033
Project No.	CISR250704033
FCC ID	2BCMP-JH1200
Applicant	Ausek Limited
Address	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
Manufacturer	Ausek Limited
Address	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
Product Name	Router
Trademark	N/A
Model/Type reference	JH1200
Listed Model(s)	JH1600，JH1000，JH600，JH1800
Standard	47 CFR Part 15.247
Test date	July 7, 2025 to July 11, 2025
Issue date	July 12, 2025
Test result	**Complied**

Lucas Huang

Prepared by: Lucas Huang

Shenzhen Bangce Testing Technology Co., Ltd. Certification Inspection Service

Approved by: Hans Hug

The test results relate only to the tested samples.

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Contents

1. REPORT VERSION

Version No.	Issue date	Description
00	July 12, 2025	Original

2. TEST DESCRIPTION

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

Note:

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

3. SUMMARY

3.1. Product Description *

Main unit information:	
Product Name:	Router
Trade Mark:	N/A
Model No.:	JH1200
Listed Model(s):	JH1600，JH1000，JH600，JH1800
Model difference:	The samples only differ in color and appearance, while their internal structures and power boards are all identical.
Power supply:	Input: AC 100-240V~50/60Hz, 0.3A ; Output: DC 12V~1.0A
Hardware version:	N/A
Software version:	N/A
Accessory unit (AU) information:	
Battery information:	N/A

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	External antenna
Antenna gain:	4.34dBi

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

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

4.2. Descriptions of test mode

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

4.3. Support unit used in test configuration

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

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

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

4.4. Test sample information

Type	Sample No.
Engineer sample	CISR250704033-S01
Normal sample	CISR250704033-S02

4.5. Environmental conditions

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

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB
2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	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.

4.7. Equipment Used during the Test

Conducted Emission at AC power line

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

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

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

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G40	AP23A8060270	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP01018050	AP23A8060280	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	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	NSLK8127	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA9170	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP18040048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT-BS	AT2021040101-V1	2025-01-08	2026-01-07

5. TEST RESULTS

5.1. Evaluation Results (Evaluation)

5.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1.1. Test Result

Pass

5.1.1.2. Conclusion:

The EUT antenna is External antenna(4.34dBi), 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)

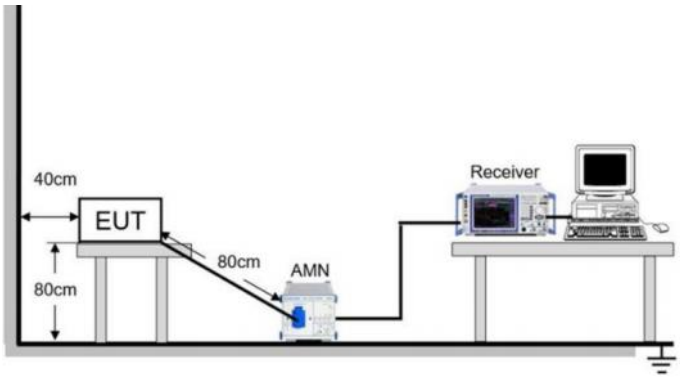
5.2.1. Conducted Emission at AC power line

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 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): 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:	22.7 °C	Humidity:	55.8 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM5				
Final test mode:	TM5				

5.2.1.2. Test Setup Diagram

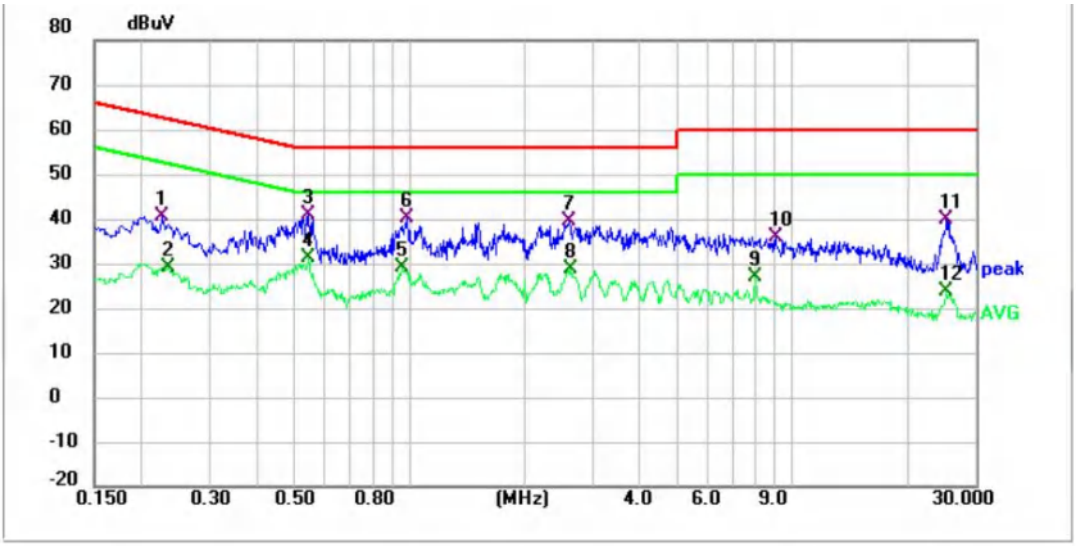


5.2.1.3. Test Result

Pass

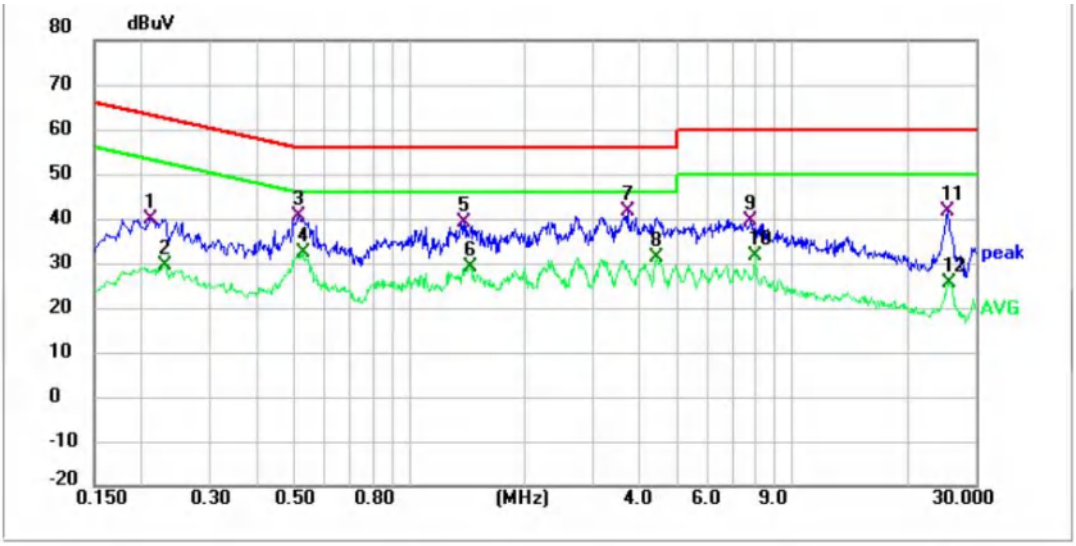
5.2.1.4. Test Data

Mode5 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2260	30.22	10.33	40.55	62.60	-22.05	QP
2	0.2340	18.60	10.33	28.93	52.31	-23.38	AVG
3	0.5420	30.65	10.38	41.03	56.00	-14.97	QP
4 *	0.5420	20.99	10.38	31.37	46.00	-14.63	AVG
5	0.9580	18.77	10.43	29.20	46.00	-16.80	AVG
6	0.9860	29.76	10.43	40.19	56.00	-15.81	QP
7	2.6099	28.62	10.87	39.49	56.00	-16.51	QP
8	2.6380	17.78	10.88	28.66	46.00	-17.34	AVG
9	8.0020	13.83	13.04	26.87	50.00	-23.13	AVG
10	9.0580	22.44	13.34	35.78	60.00	-24.22	QP
11	25.2620	24.68	15.11	39.79	60.00	-20.21	QP
12	25.2620	8.58	15.11	23.69	50.00	-26.31	AVG

Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2100	29.63	10.32	39.95	63.21	-23.26	QP
2	0.2290	19.23	10.33	29.56	52.49	-22.93	AVG
3	0.5140	30.13	10.38	40.51	56.00	-15.49	QP
4 *	0.5260	21.88	10.38	32.26	46.00	-13.74	AVG
5	1.3940	28.69	10.54	39.23	56.00	-16.77	QP
6	1.4460	18.39	10.56	28.95	46.00	-17.05	AVG
7	3.7100	30.19	11.27	41.46	56.00	-14.54	QP
8	4.4180	19.52	11.56	31.08	46.00	-14.92	AVG
9	7.7900	26.49	13.00	39.49	60.00	-20.51	QP
10	8.0020	18.63	13.06	31.69	50.00	-18.31	AVG
11	25.4660	26.44	15.31	41.75	60.00	-18.25	QP
12	25.7620	10.34	15.28	25.62	50.00	-24.38	AVG

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: 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 ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “−6 dB down amplitude”. If a marker is below this “−6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × 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:	22 °C	Humidity:	56.9 %	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 °C	Humidity:	56.9 %	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.

Note:
Array Gain = 10 log (NANT/ Nss) dB=3.01dB
Directional gain = GaNT Max + Array Gain=4.34+3.01=7.35dBi

5.2.4. Power Spectral Density

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

5.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.9 %	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.

Note:
Array Gain = 10 log (NANT/ Nss) dB=3.01dB
Directional gain = GaNT Max + Array Gain=4.34+3.01=7.35dBi

5.2.5. Conducted band edge and spurious emission

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

5.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.9 %	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.

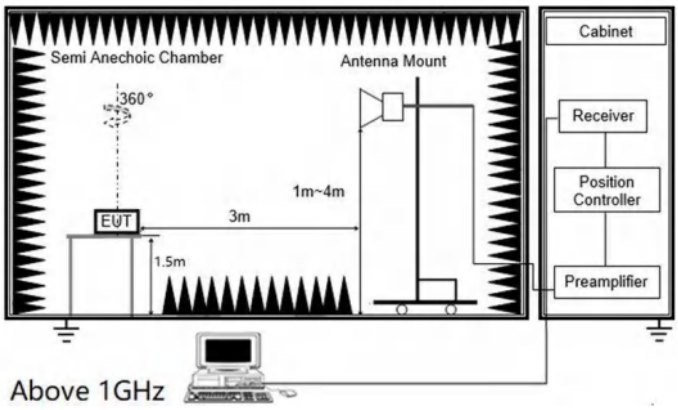
5.2.6. Radiated band edge emission

<table>
<tr><td>Test Requirement:</td><td>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)).`</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>Field strength (microvolts/meter)</td><td>Measurement distance (meters)</td></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** 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.
</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10-2020 section 6.10</td></tr>
<tr><td>Procedure:</td><td>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. Thisis 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:
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</td></tr>
</table>

5.2.6.1. E.U.T. Operation

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.1 °C</td><td>Humidity:</td><td>55 %</td><td>Atmospheric Pressure:</td><td>103 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">TM1, TM2, TM3, TM4</td></tr>
<tr><td colspan="2">Final test mode:</td><td colspan="4">TM1, TM2, TM3, TM4</td></tr>
</table>

5.2.6.2. Test Setup Diagram



5.2.6.3. Test Result

Pass

5.2.6.4. Test Data

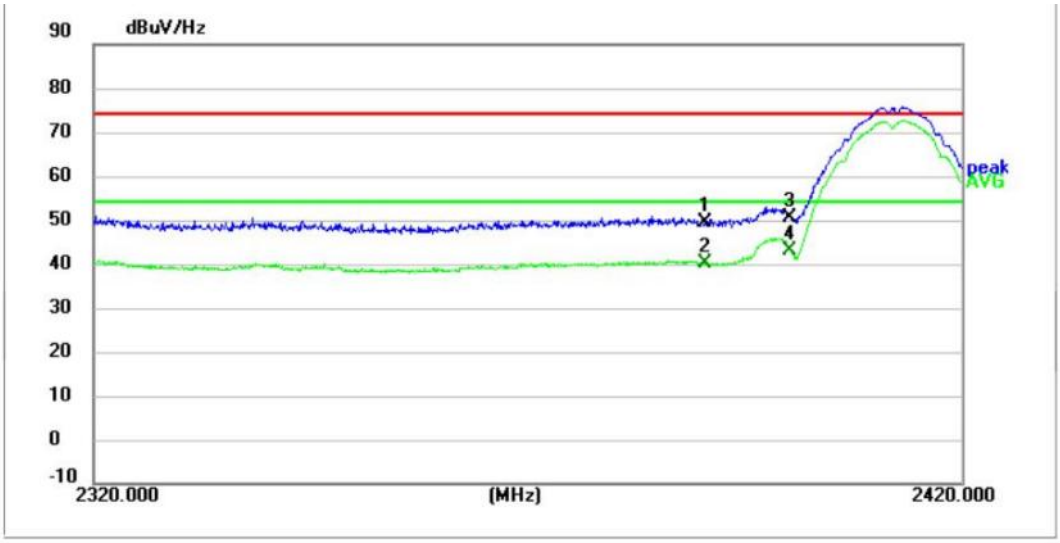
Note:

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
4) The other emission levels were very low against the limit.

Have pre-scan all test mode, found TM1 11B mode which it was worst case, so only show the worst case's data on this report.

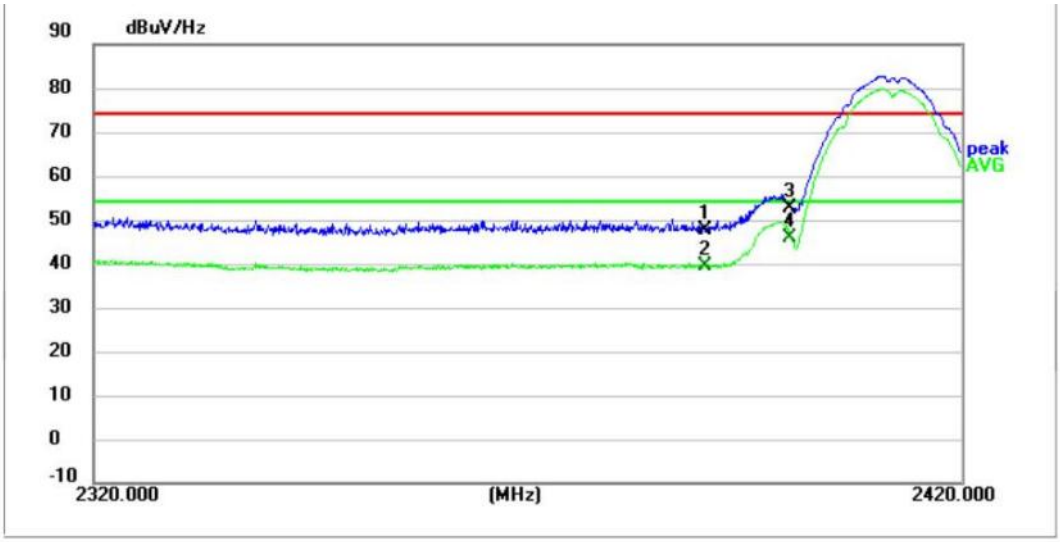
Ant0：

Mode1 / Polarization: Horizontal / CH: L



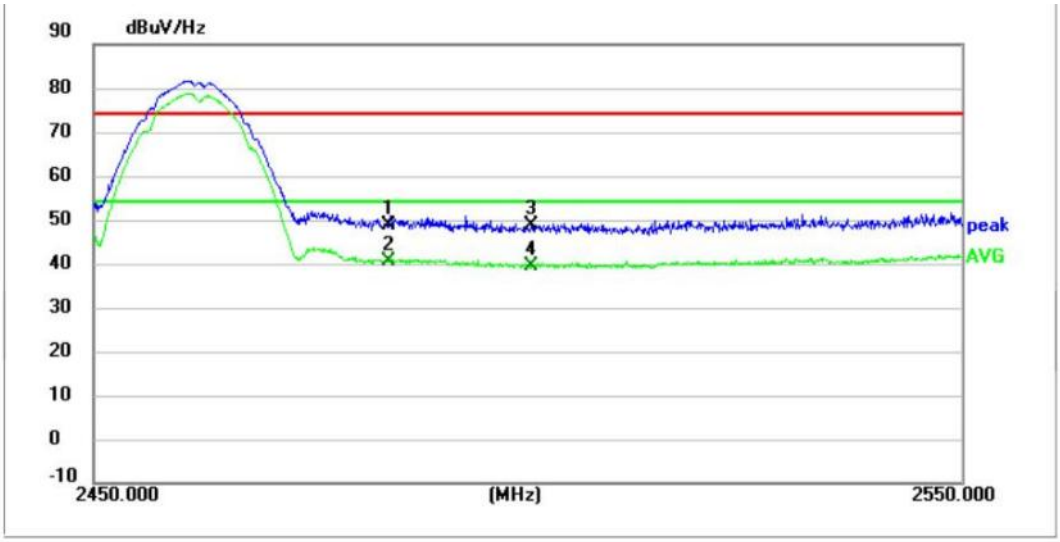
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	47.21	2.34	49.55	74.00	-24.45	peak
2	2390.0000	37.90	2.34	40.24	54.00	-13.76	AVG
3	2400.0000	48.33	2.38	50.71	74.00	-23.29	peak
4 *	2400.0000	40.72	2.38	43.10	54.00	-10.90	AVG

Mode1 / Polarization: Vertical / CH: L



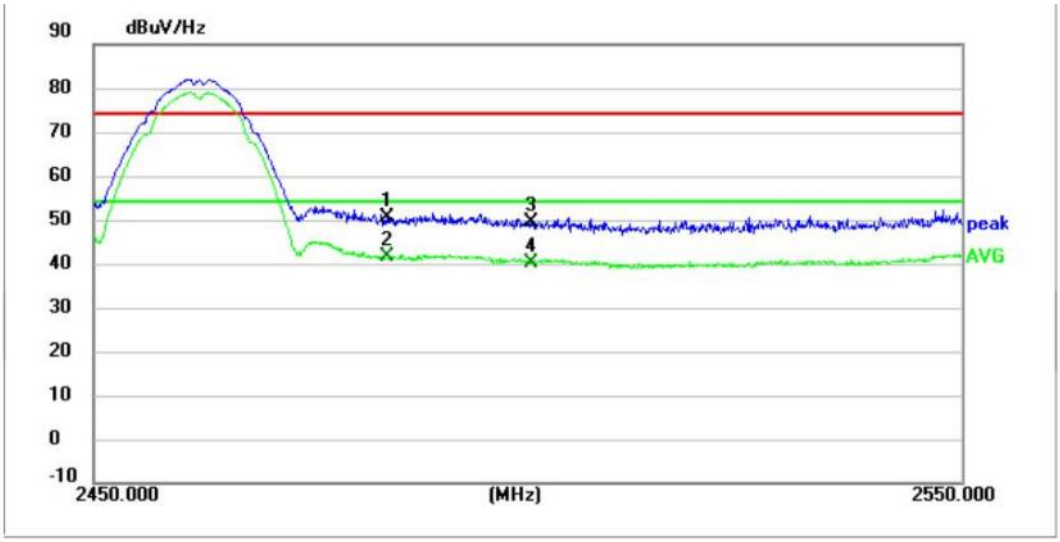
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	45.29	2.34	47.63	74.00	-26.37	peak
2	2390.0000	37.06	2.34	39.40	54.00	-14.60	AVG
3	2400.0000	50.30	2.38	52.68	74.00	-21.32	peak
4 *	2400.0000	43.52	2.38	45.90	54.00	-8.10	AVG

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	46.08	2.80	48.88	74.00	-25.12	peak
4	2500.0000	36.70	2.80	39.50	54.00	-14.50	AVG

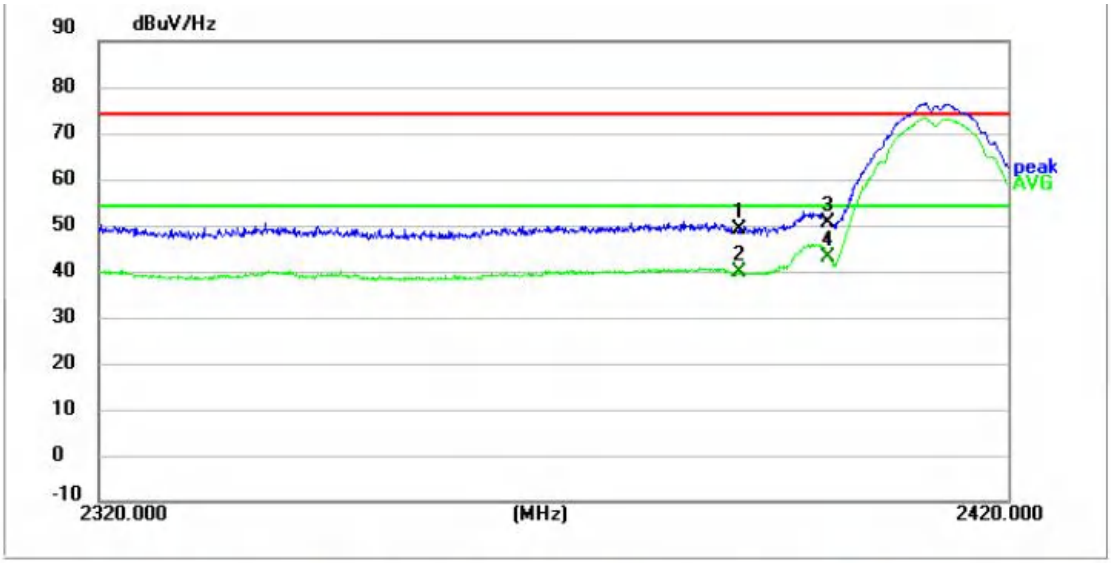
Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	47.72	2.66	50.38	74.00	-23.62	peak
2 *	2483.5000	38.82	2.66	41.48	54.00	-12.52	AVG
3	2500.0000	46.61	2.80	49.41	74.00	-24.59	peak
4	2500.0000	37.52	2.80	40.32	54.00	-13.68	AVG

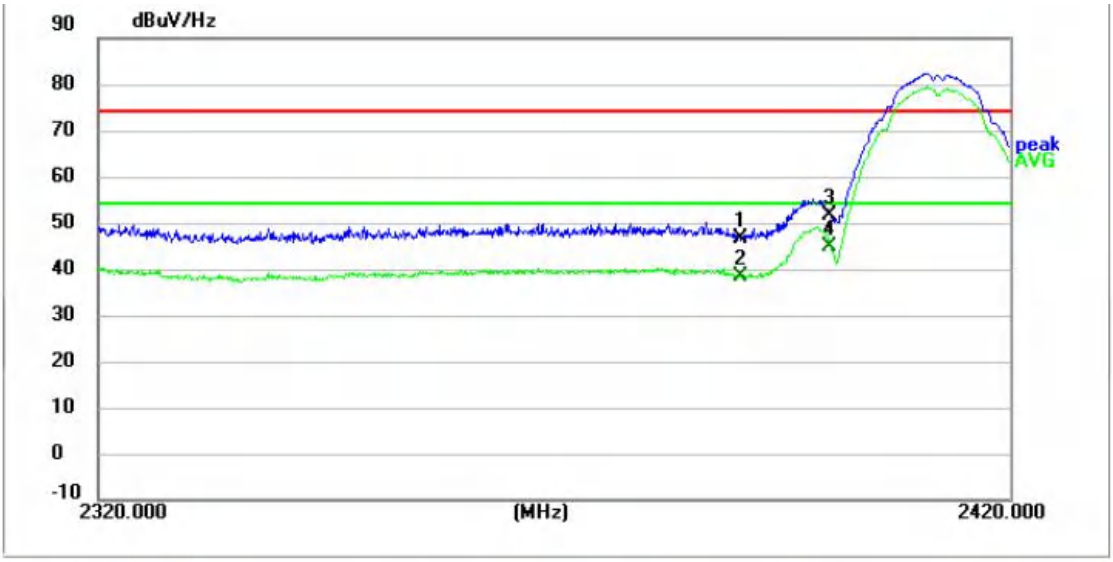
Ant1：

Mode1 / Polarization: Horizontal / CH: L



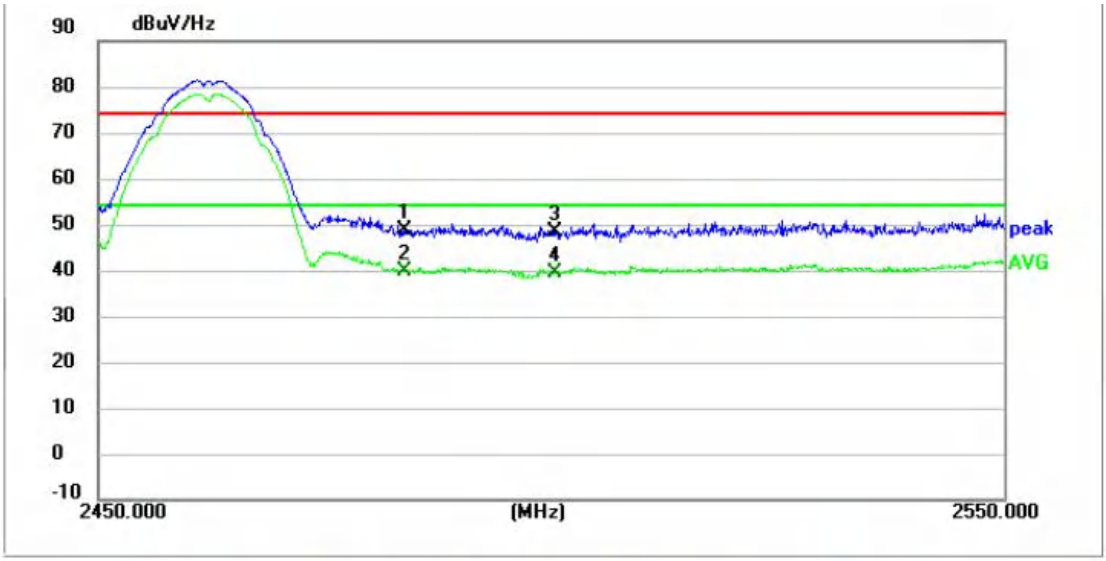
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	46.71	2.34	49.05	74.00	-24.95	peak
2	2390.0000	37.40	2.34	39.74	54.00	-14.26	AVG
3	2400.0000	48.33	2.38	50.71	74.00	-23.29	peak
4 *	2400.0000	40.72	2.38	43.10	54.00	-10.90	AVG

Mode1 / Polarization: Vertical / CH: L



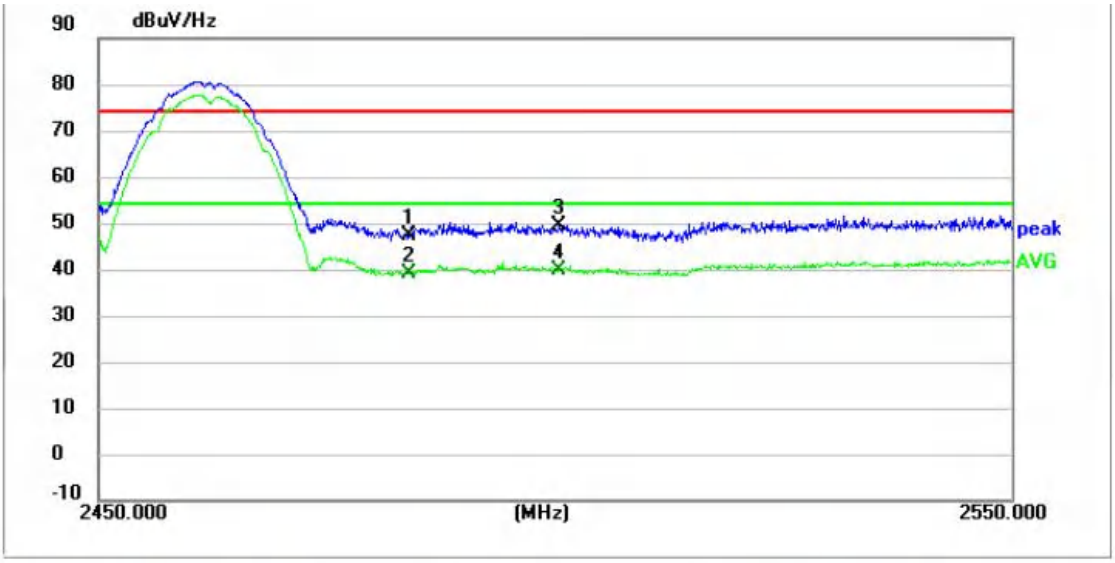
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	44.29	2.34	46.63	74.00	-27.37	peak
2	2390.0000	36.06	2.34	38.40	54.00	-15.60	AVG
3	2400.0000	49.30	2.38	51.68	74.00	-22.32	peak
4 *	2400.0000	42.52	2.38	44.90	54.00	-9.10	AVG

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	46.22	2.66	48.88	74.00	-25.12	peak
2 *	2483.5000	37.32	2.66	39.98	54.00	-14.02	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

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	44.57	2.66	47.23	74.00	-26.77	peak
2	2483.5000	36.50	2.66	39.16	54.00	-14.84	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

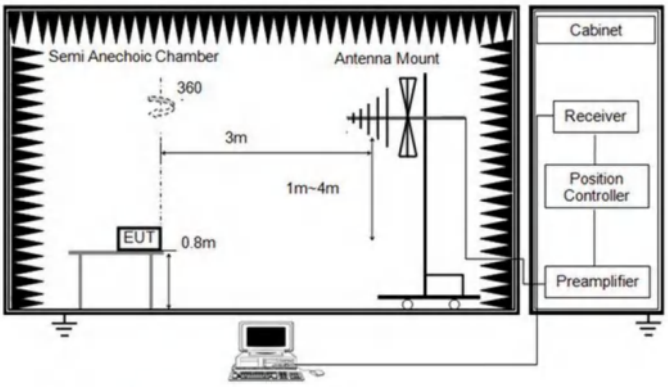
5.2.7. Radiated Spurious Emission (below 1GHz)

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:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** 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:	22.1 °C	Humidity:	55 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

5.2.7.2. Test Setup Diagram



Below 1 GHz and above 30 MHz

5.2.7.3. Test Result

Pass

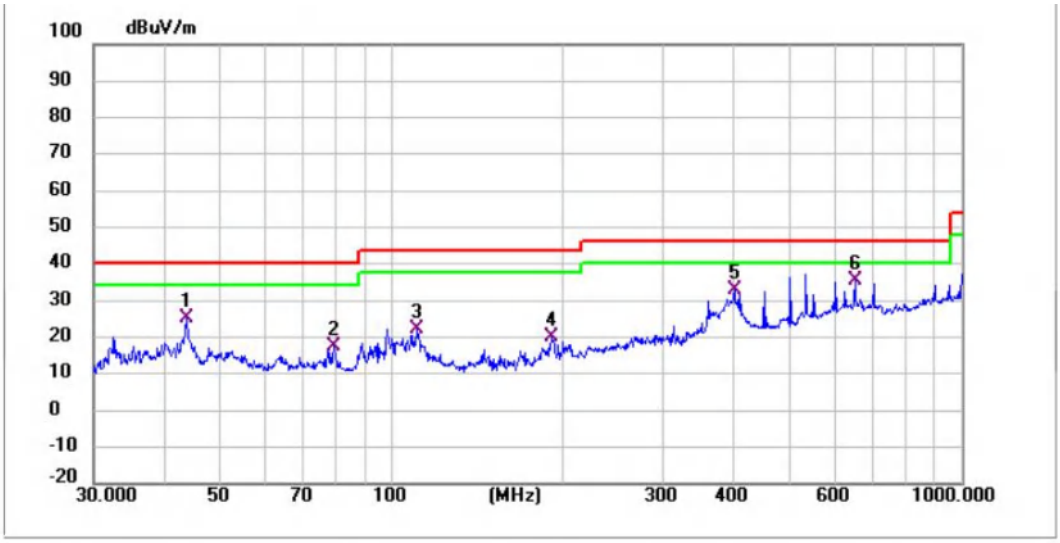
5.2.7.4. Test Data

For 30 MHz ~ 1000 MHz

Have pre-scan all test mode, found TM1 11B mode which it was worst case, so only show the worst case's data on this report.

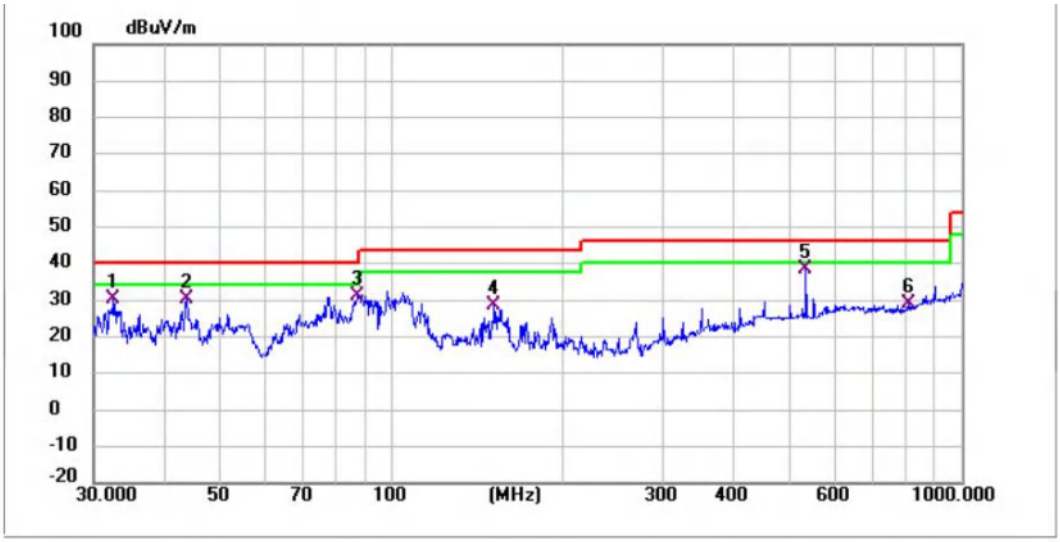
Ant0：

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.8120	54.78	-29.71	25.07	40.00	-14.93	QP
2	79.2425	51.97	-34.58	17.39	40.00	-22.61	QP
3	110.5686	52.20	-29.87	22.33	43.50	-21.17	QP
4	191.0738	49.62	-29.67	19.95	43.50	-23.55	QP
5	400.4318	56.79	-23.83	32.96	46.00	-13.04	QP
6 *	651.9415	53.25	-17.66	35.59	46.00	-10.41	QP

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.5197	62.22	-31.91	30.31	40.00	-9.69	QP
2	43.8120	60.15	-29.71	30.44	40.00	-9.56	QP
3	87.4175	64.43	-33.28	31.15	40.00	-8.85	QP
4	151.5971	61.44	-32.64	28.80	43.50	-14.70	QP
5 *	533.8320	58.53	-20.15	38.38	46.00	-7.62	QP
6	807.4290	45.27	-16.20	29.07	46.00	-16.93	QP

Ant1：

Mode1 / Polarization: Horizontal / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	63.7588	55.34	-31.29	24.05	40.00	-15.95	QP
2	98.4865	57.78	-30.65	27.13	43.50	-16.37	QP
3	145.3505	56.26	-33.28	22.98	43.50	-20.52	QP
4	360.4476	55.74	-24.36	31.38	46.00	-14.62	QP
5 *	651.9415	57.25	-17.66	39.59	46.00	-6.41	QP
6	900.1471	53.39	-14.28	39.11	46.00	-6.89	QP

Mode1 / Polarization: Vertical / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	51.6613	52.54	-29.45	23.09	40.00	-16.91	QP
2	98.4865	61.84	-30.65	31.19	43.50	-12.31	QP
3	172.5987	56.07	-31.16	24.91	43.50	-18.59	QP
4	300.3672	54.08	-25.93	28.15	46.00	-17.85	QP
5	620.7096	51.45	-18.00	33.45	46.00	-12.55	QP
6 *	900.1471	51.00	-14.28	36.72	46.00	-9.28	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

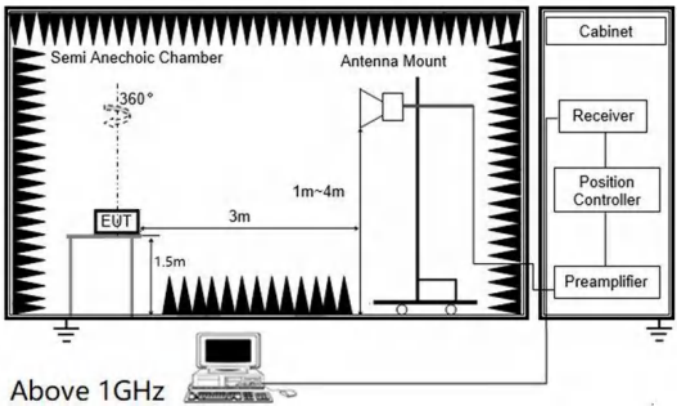
5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	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:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** 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:	22.1 °C	Humidity:	55 %	Atmospheric Pressure:	103 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

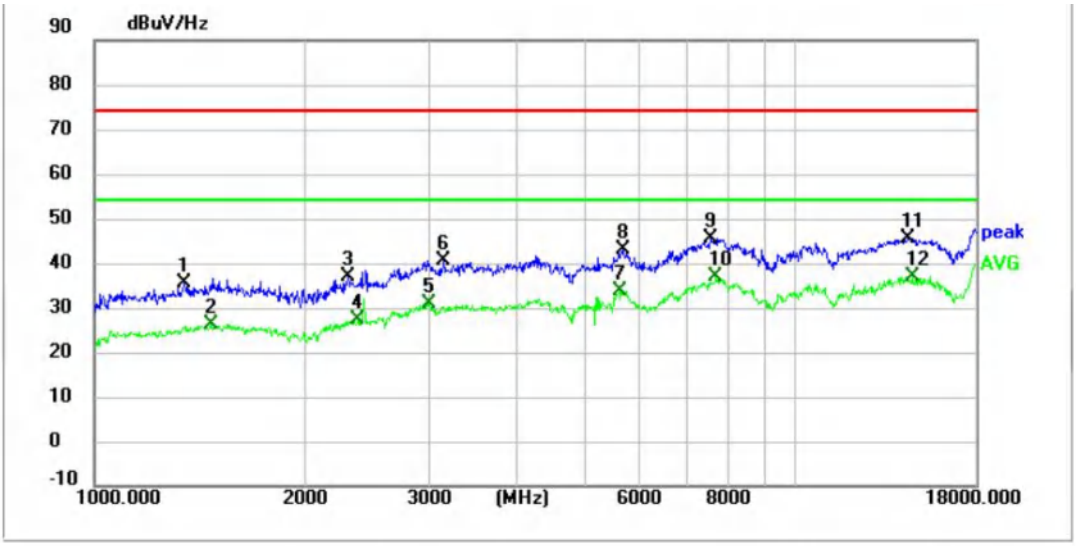
Pass

5.2.8.4. Test Data

Have pre-scan all test mode, found TM1 11B mode which it was worst case, so only show the worst case's data on this report.

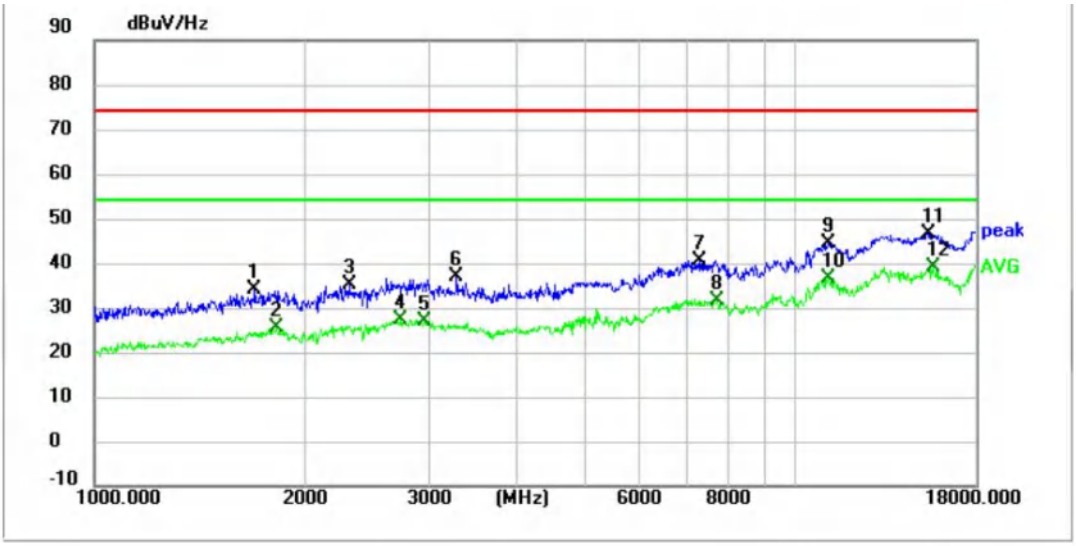
Ant0：

Mode1 / Polarization: Horizontal / CH: L



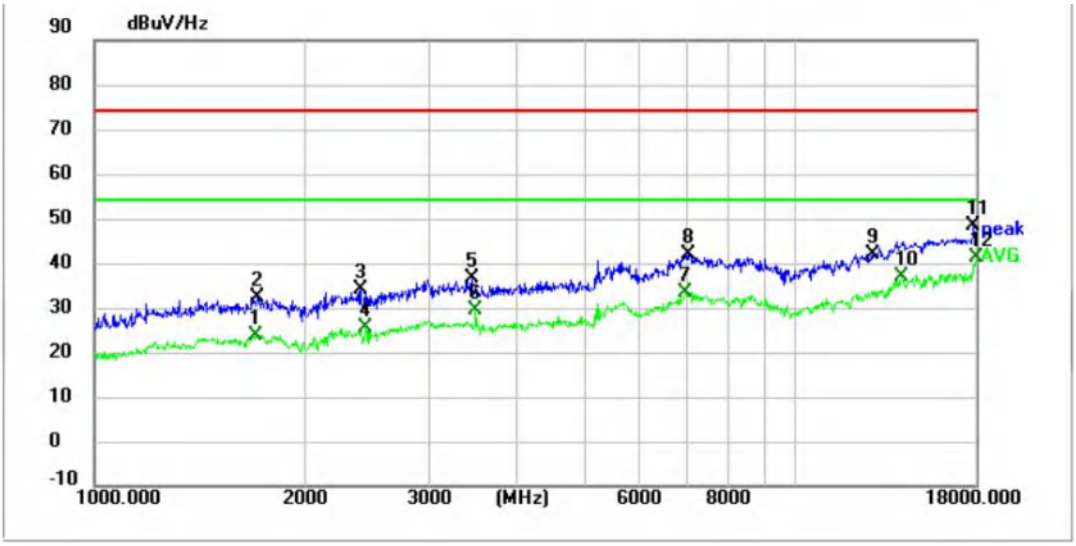
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1345.1000	56.62	-21.20	35.42	74.00	-38.58	peak
2	1465.8000	47.10	-20.80	26.30	54.00	-27.70	AVG
3	2300.5000	54.53	-17.53	37.00	74.00	-37.00	peak
4	2378.7000	44.50	-17.35	27.15	54.00	-26.85	AVG
5	2999.2000	45.56	-14.62	30.94	54.00	-23.06	AVG
6	3150.5000	54.61	-14.23	40.38	74.00	-33.62	peak
7	5610.4000	40.37	-6.61	33.76	54.00	-20.24	AVG
8	5673.3000	49.47	-6.37	43.10	74.00	-30.90	peak
9	7565.4000	40.02	5.56	45.58	74.00	-28.42	peak
10	7692.9000	31.03	5.76	36.79	54.00	-17.21	AVG
11	14491.2000	27.18	18.32	45.50	74.00	-28.50	peak
12 *	14620.4000	18.78	18.27	37.05	54.00	-16.95	AVG

Mode1 / Polarization: Vertical / CH: L



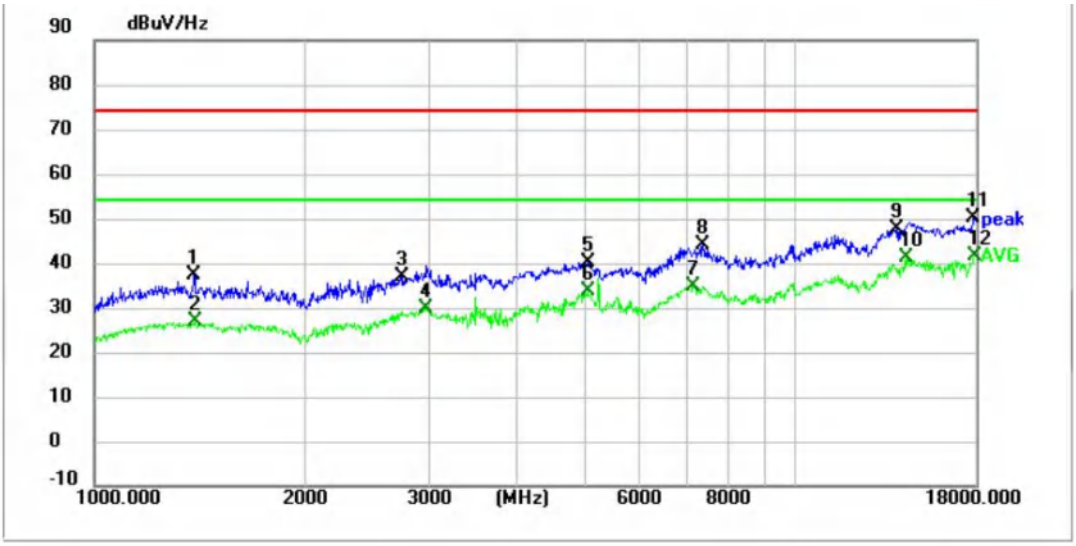
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1697.0000	54.12	-20.10	34.02	74.00	-39.98	peak
2	1821.1000	44.98	-19.47	25.51	54.00	-28.49	AVG
3	2310.7000	52.80	-17.51	35.29	74.00	-38.71	peak
4	2730.6000	43.04	-15.70	27.34	54.00	-26.66	AVG
5	2958.4000	41.76	-14.76	27.00	54.00	-27.00	AVG
6	3288.2000	50.94	-13.94	37.00	74.00	-37.00	peak
7	7288.3000	35.99	4.60	40.59	74.00	-33.41	peak
8	7701.4000	25.93	5.77	31.70	54.00	-22.30	AVG
9	11109.9000	31.13	13.49	44.62	74.00	-29.38	peak
10	11109.9000	23.18	13.49	36.67	54.00	-17.33	AVG
11	15443.2000	29.38	17.40	46.78	74.00	-27.22	peak
12 *	15744.1000	22.48	16.74	39.22	54.00	-14.78	AVG

Mode1 / Polarization: Horizontal / CH: M



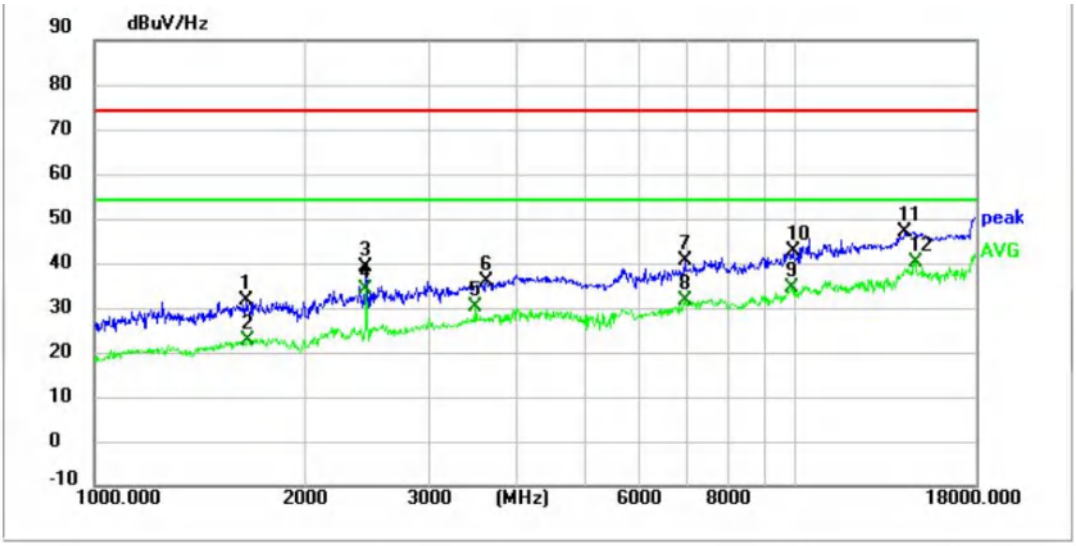
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1702.1000	43.79	-20.07	23.72	54.00	-30.28	AVG
2	1707.2000	52.53	-20.05	32.48	74.00	-41.52	peak
3	2399.1000	51.26	-17.29	33.97	74.00	-40.03	peak
4	2436.5000	42.67	-17.23	25.44	54.00	-28.56	AVG
5	3451.4000	50.21	-13.76	36.45	74.00	-37.55	peak
6	3499.0000	43.15	-13.77	29.38	54.00	-24.62	AVG
7	6950.0000	30.30	3.23	33.53	54.00	-20.47	AVG
8	7026.5000	38.09	3.75	41.84	74.00	-32.16	peak
9	12857.5000	26.75	15.34	42.09	74.00	-31.91	peak
10	14120.6000	18.25	18.54	36.79	54.00	-17.21	AVG
11	17906.5000	25.11	23.44	48.55	74.00	-25.45	peak
12 *	18000.0000	16.99	24.13	41.12	54.00	-12.88	AVG

Mode1 / Polarization: Vertical / CH: M



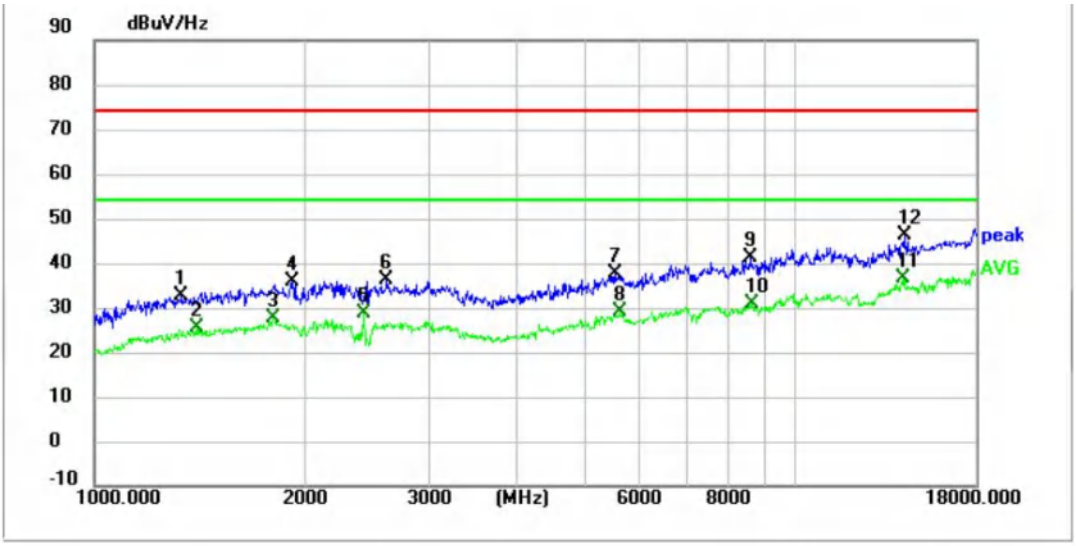
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1389.3000	58.39	-21.13	37.26	74.00	-36.74	peak
2	1391.0000	48.16	-21.12	27.04	54.00	-26.96	AVG
3	2756.1000	52.72	-15.63	37.09	74.00	-36.91	peak
4	2965.2000	44.70	-14.74	29.96	54.00	-24.04	AVG
5	5056.2000	48.58	-8.34	40.24	74.00	-33.76	peak
6	5056.2000	41.94	-8.34	33.60	54.00	-20.40	AVG
7	7138.7000	30.87	4.11	34.98	54.00	-19.02	AVG
8	7364.8000	39.35	4.85	44.20	74.00	-29.80	peak
9	13886.0000	29.73	18.12	47.85	74.00	-26.15	peak
10	14375.6000	22.77	18.54	41.31	54.00	-12.69	AVG
11	17916.7000	26.83	23.51	50.34	74.00	-23.66	peak
12 *	17960.9000	17.76	23.84	41.60	54.00	-12.40	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1651.1000	51.96	-20.37	31.59	74.00	-42.41	peak
2	1657.9000	43.05	-20.33	22.72	54.00	-31.28	AVG
3	2439.9000	56.19	-17.22	38.97	74.00	-35.03	peak
4	2439.9000	51.18	-17.22	33.96	54.00	-20.04	AVG
5	3499.0000	43.79	-13.77	30.02	54.00	-23.98	AVG
6	3619.7000	49.30	-13.35	35.95	74.00	-38.05	peak
7	6951.7000	37.23	3.24	40.47	74.00	-33.53	peak
8	6961.9000	28.25	3.32	31.57	54.00	-22.43	AVG
9	9850.2000	23.65	10.66	34.31	54.00	-19.69	AVG
10	9913.1000	31.78	10.83	42.61	74.00	-31.39	peak
11	14307.6000	28.42	18.47	46.89	74.00	-27.11	peak
12 *	14804.0000	22.07	18.04	40.11	54.00	-13.89	AVG

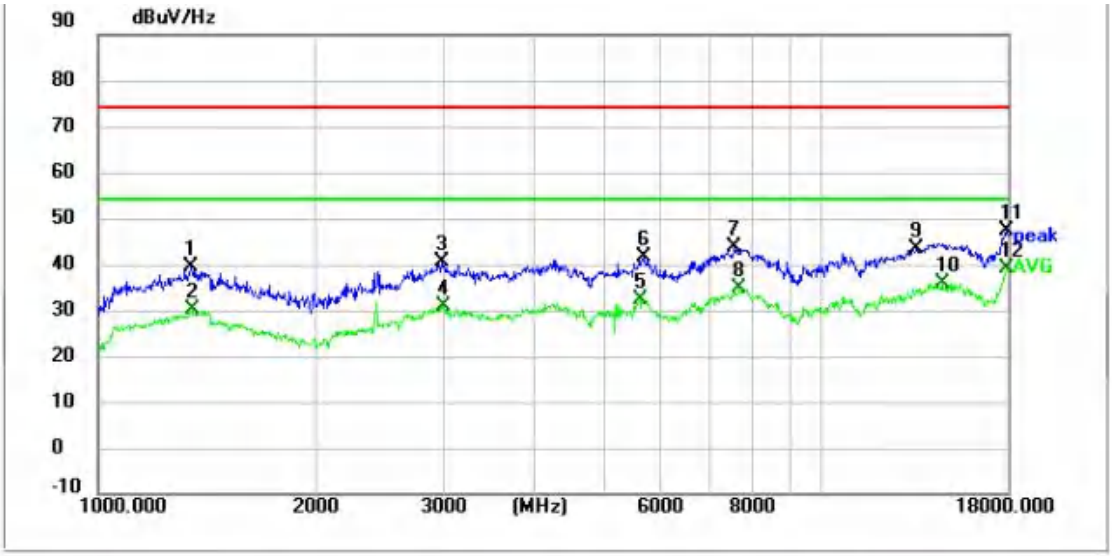
Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1331.5000	53.80	-21.23	32.57	74.00	-41.43	peak
2	1399.5000	46.55	-21.11	25.44	54.00	-28.56	AVG
3	1800.7000	47.26	-19.51	27.75	54.00	-26.25	AVG
4	1914.6000	54.94	-19.21	35.73	74.00	-38.27	peak
5	2426.3000	46.01	-17.24	28.77	54.00	-25.23	AVG
6	2613.3000	52.31	-16.13	36.18	74.00	-37.82	peak
7	5547.5000	44.33	-6.65	37.68	74.00	-36.32	peak
8	5620.6000	35.53	-6.58	28.95	54.00	-25.05	AVG
9	8599.0000	33.70	7.46	41.16	74.00	-32.84	peak
10	8650.0000	23.42	7.55	30.97	54.00	-23.03	AVG
11 *	14186.9000	17.95	18.62	36.57	54.00	-17.43	AVG
12	14248.1000	27.64	18.55	46.19	74.00	-27.81	peak

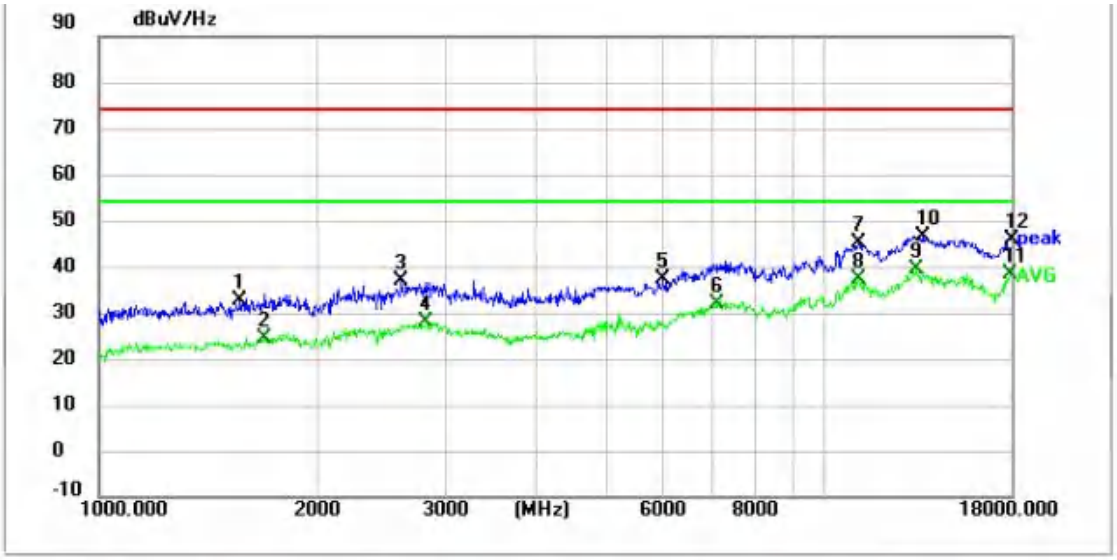
Ant1：

Mode1 / Polarization: Horizontal / CH: L



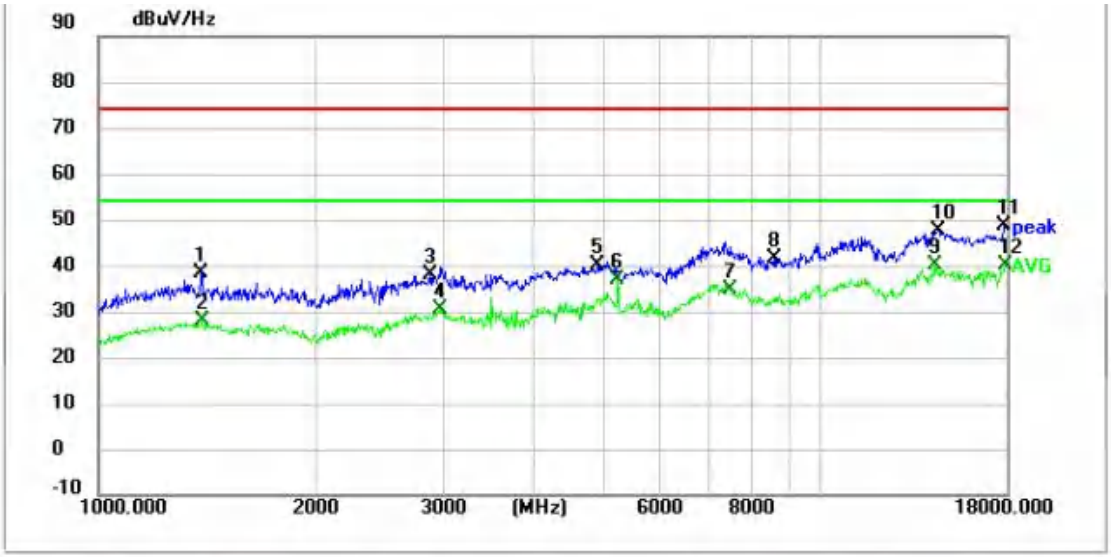
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1345.1000	60.62	-21.20	39.42	74.00	-34.58	peak
2	1346.8000	51.24	-21.20	30.04	54.00	-23.96	AVG
3	2995.8000	55.01	-14.64	40.37	74.00	-33.63	peak
4	2999.2000	45.56	-14.62	30.94	54.00	-23.06	AVG
5	5610.4000	38.87	-6.61	32.26	54.00	-21.74	AVG
6	5673.3000	47.97	-6.37	41.60	74.00	-32.40	peak
7	7565.4000	38.02	5.56	43.58	74.00	-30.42	peak
8	7692.9000	29.03	5.76	34.79	54.00	-19.21	AVG
9	13503.5000	26.38	17.08	43.46	74.00	-30.54	peak
10	14620.4000	17.78	18.27	36.05	54.00	-17.95	AVG
11	17986.4000	23.22	24.03	47.25	74.00	-26.75	peak
12 *	17986.4000	15.18	24.03	39.21	54.00	-14.79	AVG

Mode1 / Polarization: Vertical / CH: L



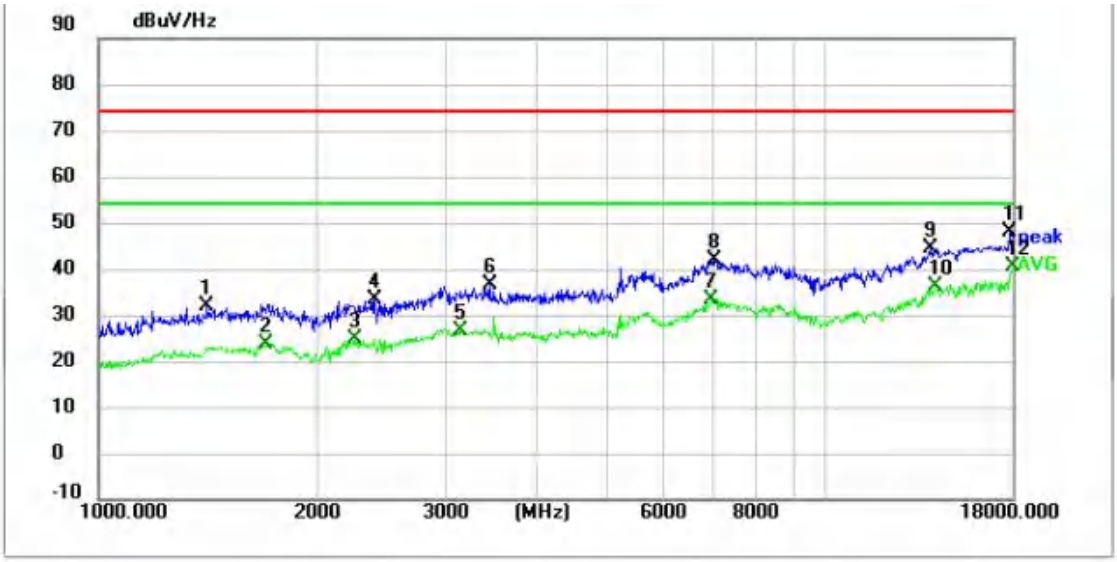
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1567.8000	53.37	-20.58	32.79	74.00	-41.21	peak
2	1690.2000	44.73	-20.14	24.59	54.00	-29.41	AVG
3	2613.3000	53.23	-16.13	37.10	74.00	-36.90	peak
4	2822.4000	43.19	-15.28	27.91	54.00	-26.09	AVG
5	6001.4000	43.32	-5.91	37.41	74.00	-36.59	peak
6	7079.2000	28.16	3.96	32.12	54.00	-21.88	AVG
7	11109.9000	31.63	13.49	45.12	74.00	-28.88	peak
8	11109.9000	23.68	13.49	37.17	54.00	-16.83	AVG
9 *	13393.0000	22.69	16.93	39.62	54.00	-14.38	AVG
10	13653.1000	29.27	17.48	46.75	74.00	-27.25	peak
11	17989.8000	14.46	24.06	38.52	54.00	-15.48	AVG
12	18000.0000	21.94	24.13	46.07	74.00	-27.93	peak

Mode1 / Polarization: Horizontal / CH: M



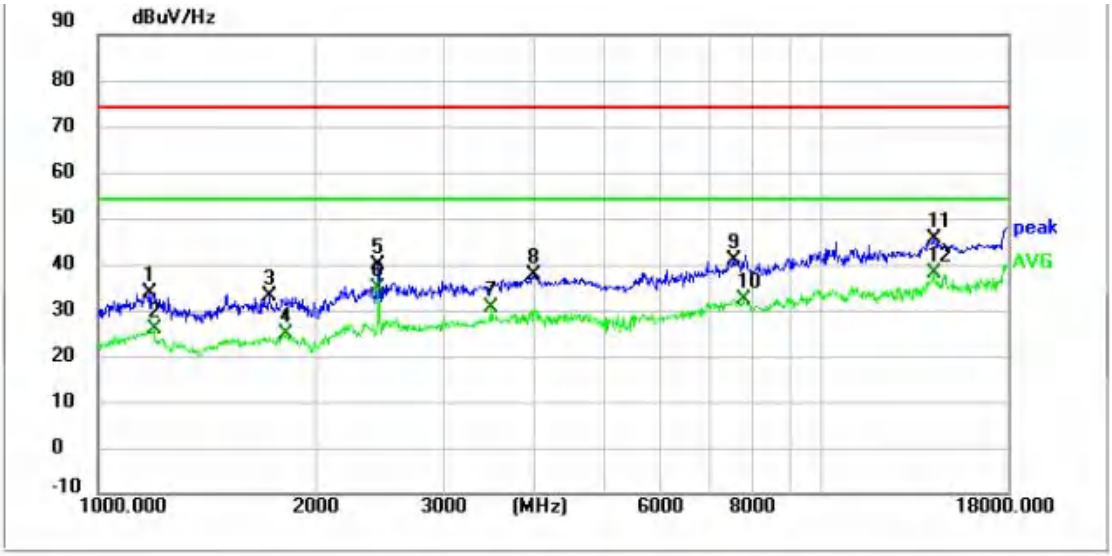
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1389.3000	59.39	-21.13	38.26	74.00	-35.74	peak
2	1391.0000	49.16	-21.12	28.04	54.00	-25.96	AVG
3	2880.2000	53.19	-15.01	38.18	74.00	-35.82	peak
4	2965.2000	45.20	-14.74	30.46	54.00	-23.54	AVG
5	4910.0000	49.43	-9.30	40.13	74.00	-33.87	peak
6	5236.4000	44.96	-7.91	37.05	54.00	-16.95	AVG
7	7485.5000	29.73	5.17	34.90	54.00	-19.10	AVG
8	8602.4000	34.32	7.46	41.78	74.00	-32.22	peak
9 *	14375.6000	21.77	18.54	40.31	54.00	-13.69	AVG
10	14503.1000	29.26	18.29	47.55	74.00	-26.45	peak
11	17916.7000	25.33	23.51	48.84	74.00	-25.16	peak
12	17960.9000	16.26	23.84	40.10	54.00	-13.90	AVG

Mode1 / Polarization: Vertical / CH: M



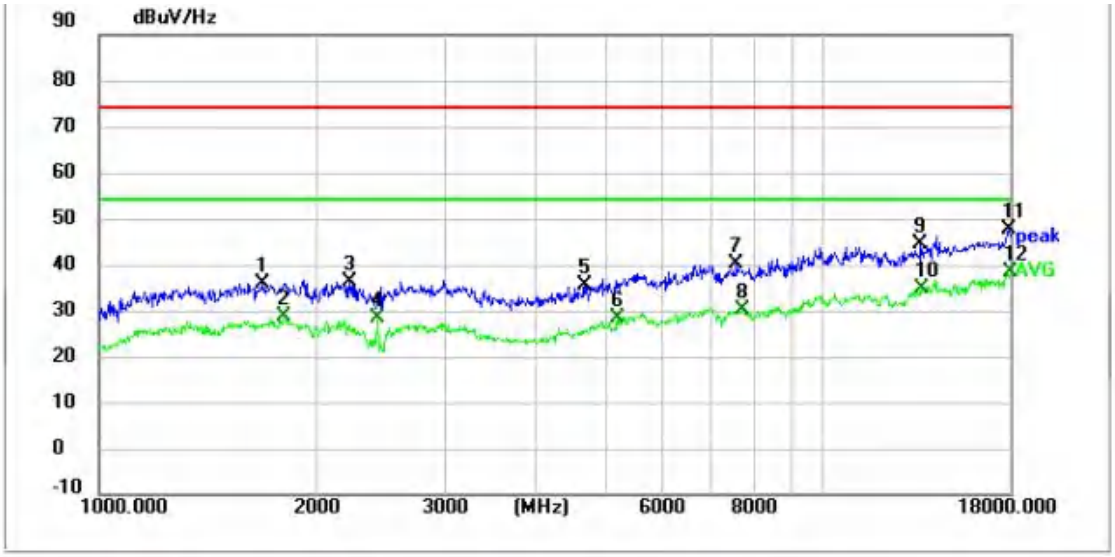
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1413.1000	52.97	-21.04	31.93	74.00	-42.07	peak
2	1702.1000	43.79	-20.07	23.72	54.00	-30.28	AVG
3	2247.8000	42.40	-17.70	24.70	54.00	-29.30	AVG
4	2399.1000	50.76	-17.29	33.47	74.00	-40.53	peak
5	3150.5000	40.92	-14.23	26.69	54.00	-27.31	AVG
6	3451.4000	50.21	-13.76	36.45	74.00	-37.55	peak
7	6950.0000	30.30	3.23	33.53	54.00	-20.47	AVG
8	7026.5000	38.09	3.75	41.84	74.00	-32.16	peak
9	13945.5000	26.07	18.37	44.44	74.00	-29.56	peak
10	14120.6000	17.75	18.54	36.29	54.00	-17.71	AVG
11	17906.5000	24.61	23.44	48.05	74.00	-25.95	peak
12 *	18000.0000	16.49	24.13	40.62	54.00	-13.38	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1178.5000	55.34	-21.53	33.81	74.00	-40.19	peak
2	1198.9000	47.45	-21.46	25.99	54.00	-28.01	AVG
3	1722.5000	53.09	-19.96	33.13	74.00	-40.87	peak
4	1822.8000	44.14	-19.47	24.67	54.00	-29.33	AVG
5	2439.9000	57.19	-17.22	39.97	74.00	-34.03	peak
6	2439.9000	52.18	-17.22	34.96	54.00	-19.04	AVG
7	3499.0000	44.29	-13.77	30.52	54.00	-23.48	AVG
8	3993.7000	50.09	-12.32	37.77	74.00	-36.23	peak
9	7570.5000	35.43	5.58	41.01	74.00	-32.99	peak
10	7803.4000	26.72	5.69	32.41	54.00	-21.59	AVG
11	14249.8000	27.10	18.55	45.65	74.00	-28.35	peak
12 *	14249.8000	19.47	18.55	38.02	54.00	-15.98	AVG

Mode1 / Polarization: Vertical / CH: H

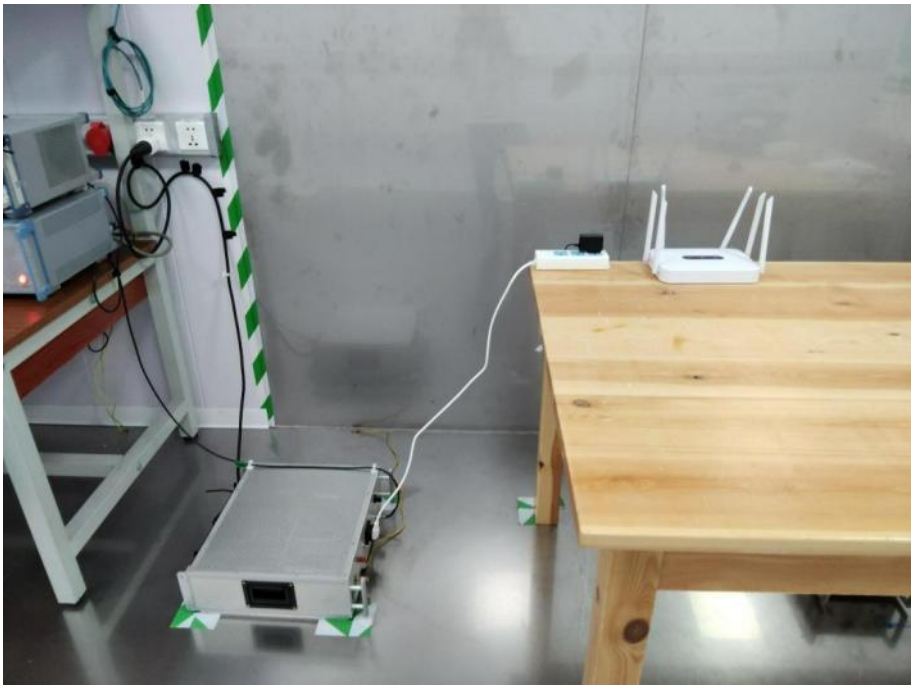


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1680.0000	56.09	-20.20	35.89	74.00	-38.11	peak
2	1800.7000	48.26	-19.51	28.75	54.00	-25.25	AVG
3	2225.7000	54.06	-17.73	36.33	74.00	-37.67	peak
4	2426.3000	45.51	-17.24	28.27	54.00	-25.73	AVG
5	4680.5000	45.72	-10.36	35.36	74.00	-38.64	peak
6	5188.8000	36.46	-8.02	28.44	54.00	-25.56	AVG
7	7567.1000	34.58	5.56	40.14	74.00	-33.86	peak
8	7709.9000	24.56	5.76	30.32	54.00	-23.68	AVG
9	13576.6000	27.38	17.25	44.63	74.00	-29.37	peak
10	13629.3000	17.37	17.39	34.76	54.00	-19.24	AVG
11	17971.1000	23.59	23.92	47.51	74.00	-26.49	peak
12 *	18000.0000	14.34	24.13	38.47	54.00	-15.53	AVG

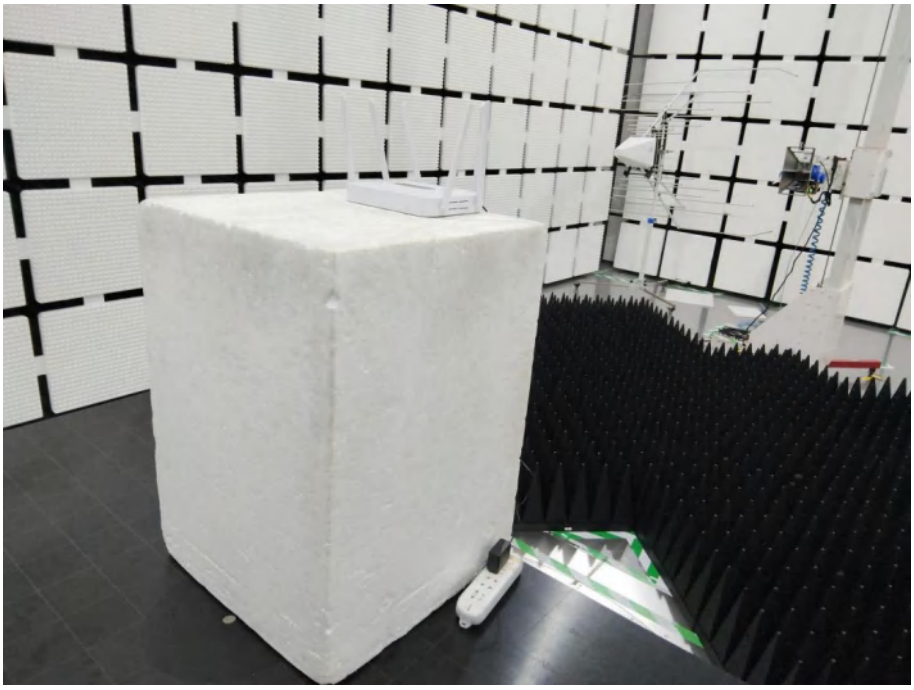
Note:
1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
2) Margin = Limit – Level
3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.

6. TEST SETUP PHOTOS

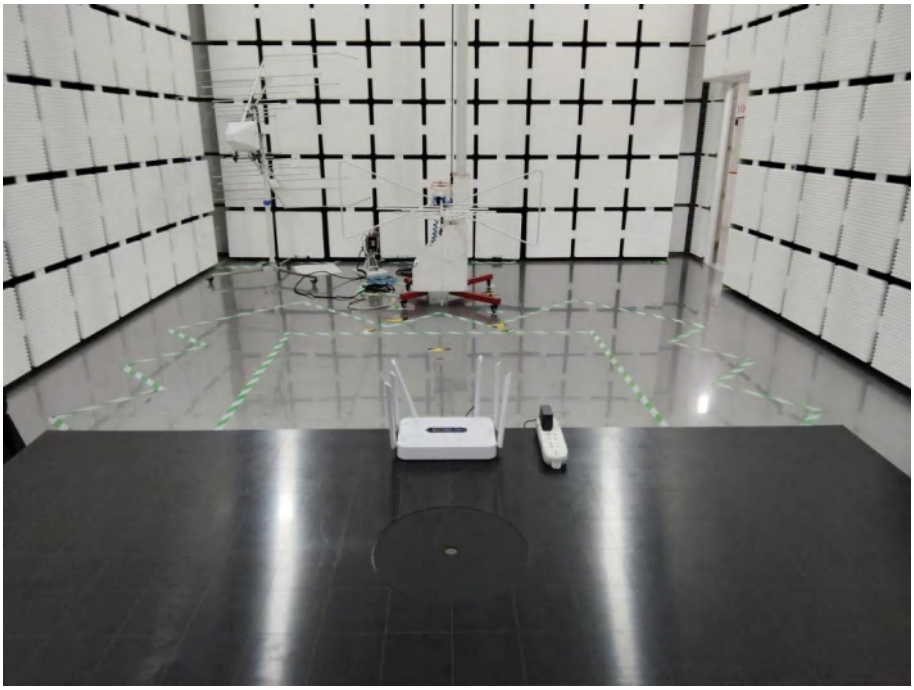
Conducted Emission at AC power line



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

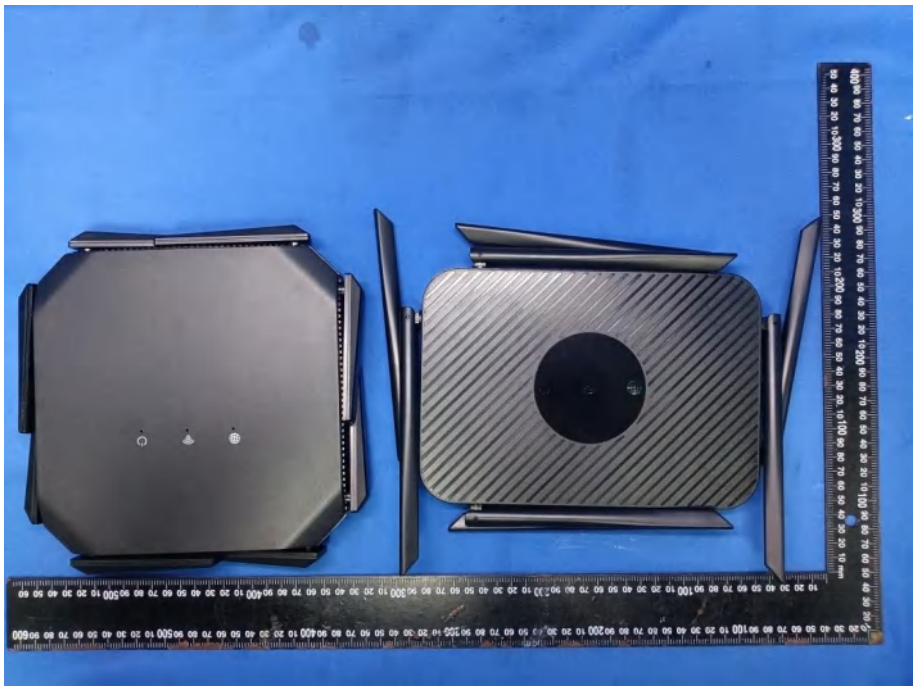


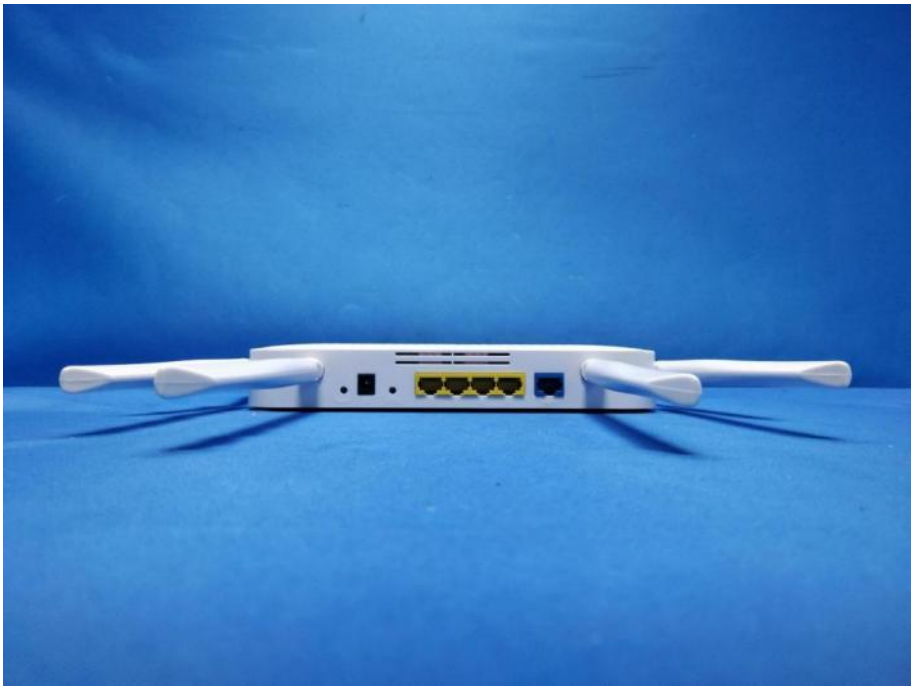
Radiated Spurious Emission (below 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS

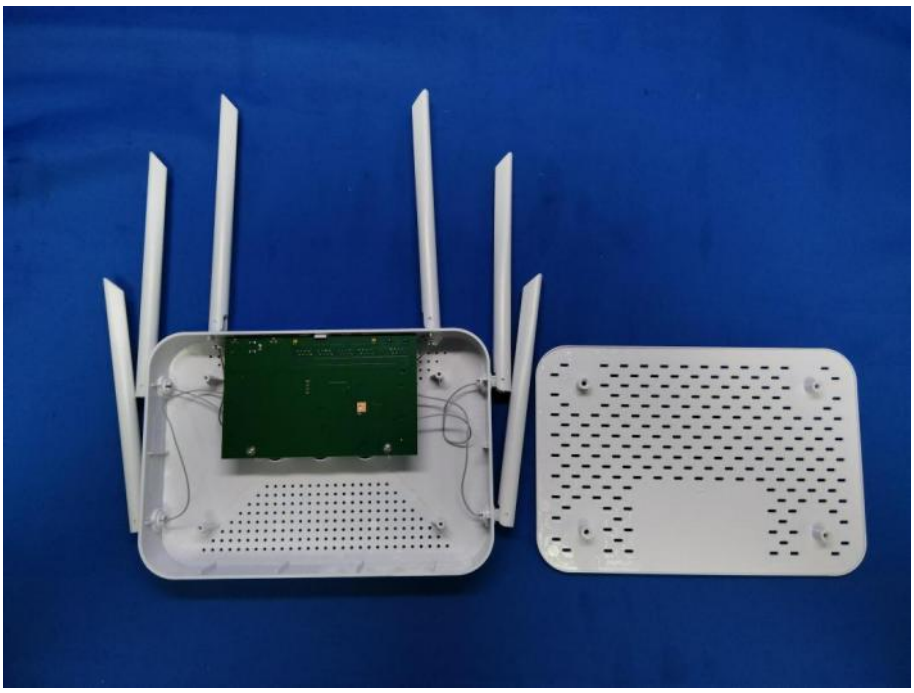
7.1. External Photos

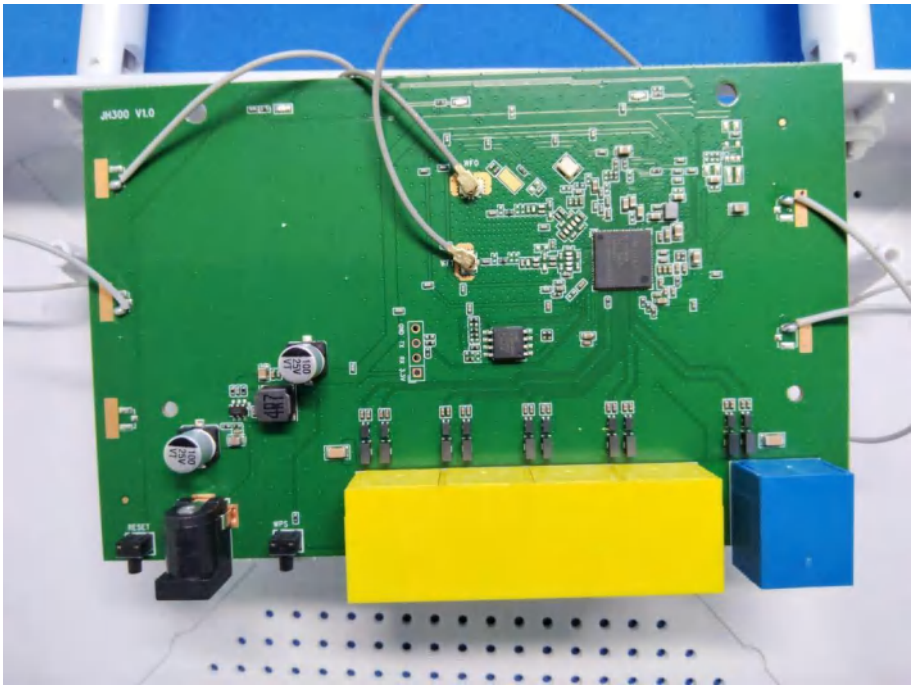


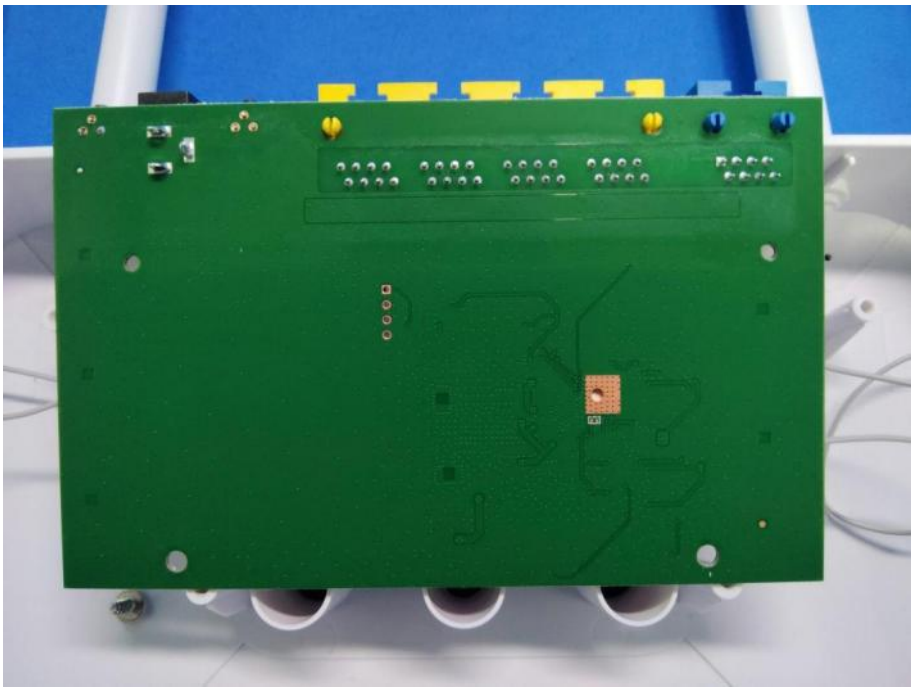


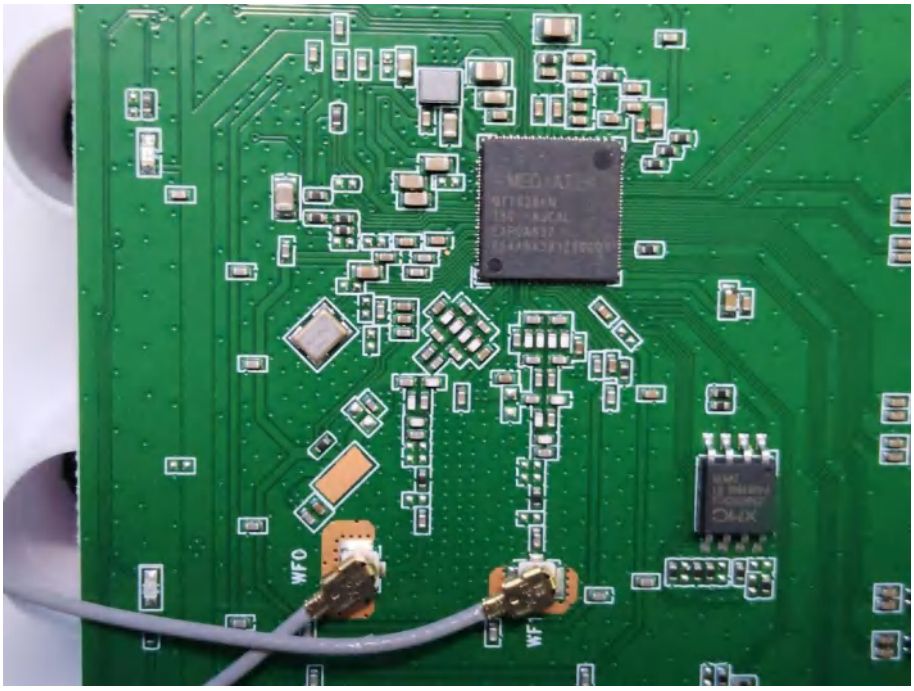

SWITCHING ADAPTER
Model No.:STA12-120100-AU
Input:100-240V~ 50/60Hz 0.5A Max
Output:12.0V ⎓ 1.0A
E336751
LISTED
3SN7
POWER SUPPLY
DONGGUAN GANGQI ELECTRONIC CO LTD
MADE IN CHINA
2506GQ

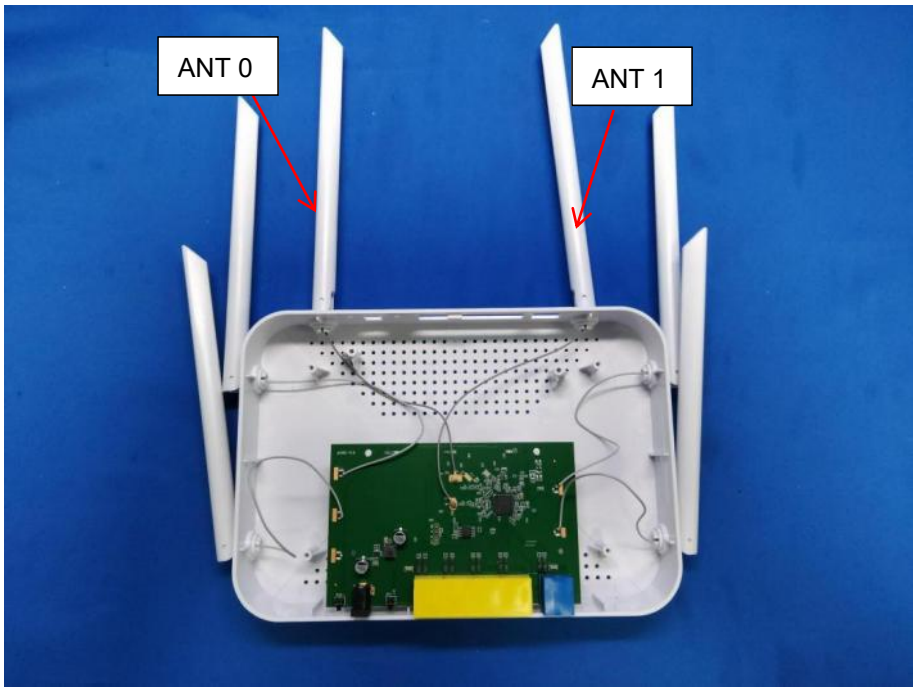
7.2. Internal Photos

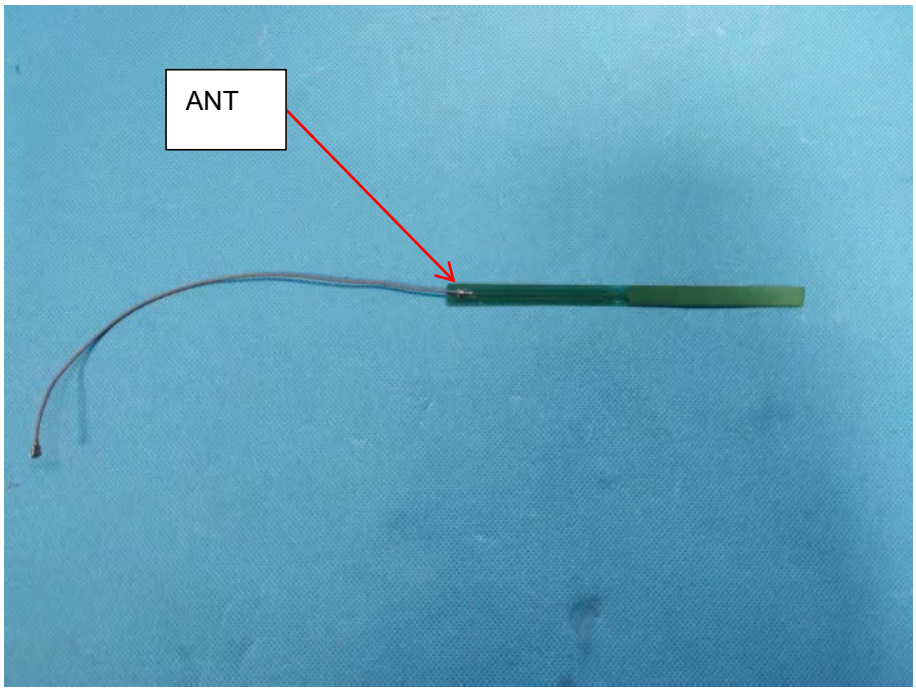







WF0
WF1





8. Appendix Report

Appendix Report

Project No.:	CISR250704033
Test Engineer:	James Wang
Supervised by:	Rory Huang

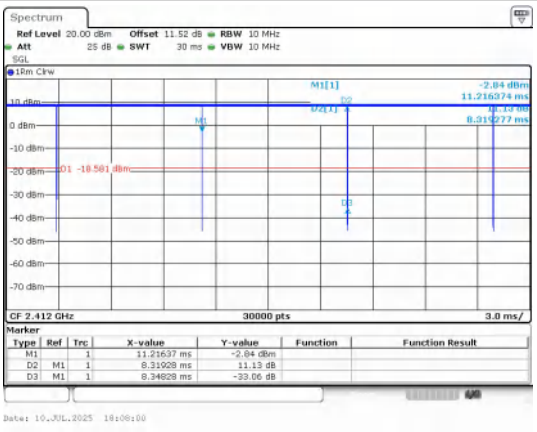
8.1. Duty Cycle

Ant0：

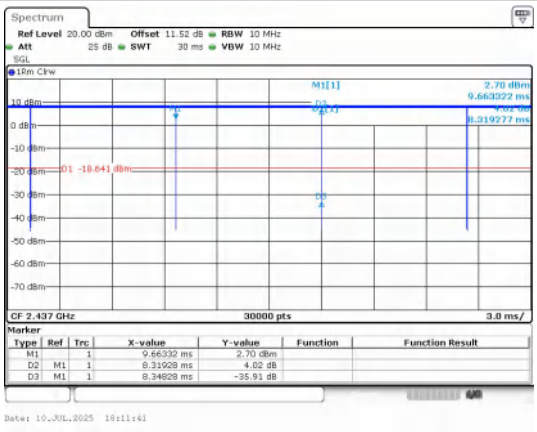
Test Result

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	8.348	99.65	0.9965	0.0152	0.1202
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.319	8.347	99.66	0.9966	0.0148	0.1202
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.429	97.69	0.9769	0.1015	0.7163
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	1		1.304	1.337	97.53	0.9753	0.1086	0.7669
		6		1.292	1.326	97.44	0.9744	0.1126	0.7740
		11		1.293	1.327	97.44	0.9744	0.1126	0.7734
IEEE 802.11n_40		3		0.650	0.684	94.94	0.9494	0.2255	1.5385
		6		0.650	0.684	94.94	0.9494	0.2255	1.5385
		9		0.650	0.684	95.00	0.9500	0.2228	1.5385

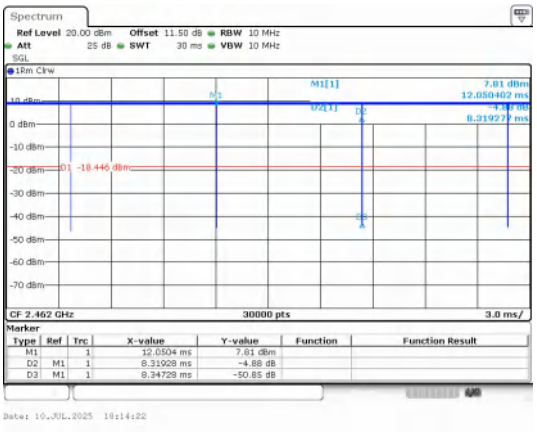
Test Graphs



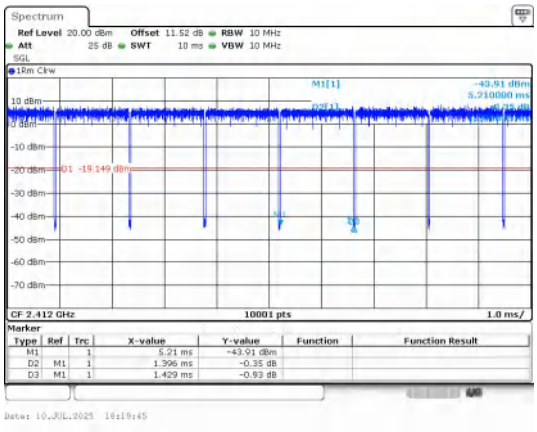
IEEE 802.11b_20MHz_Channel 1



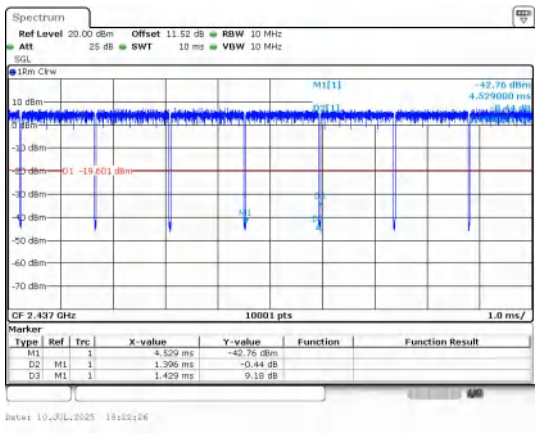
IEEE 802.11b_20MHz_Channel 6



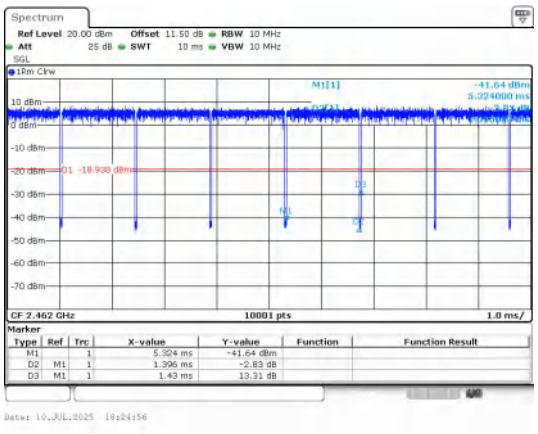
IEEE 802.11b_20MHz_Channel 11



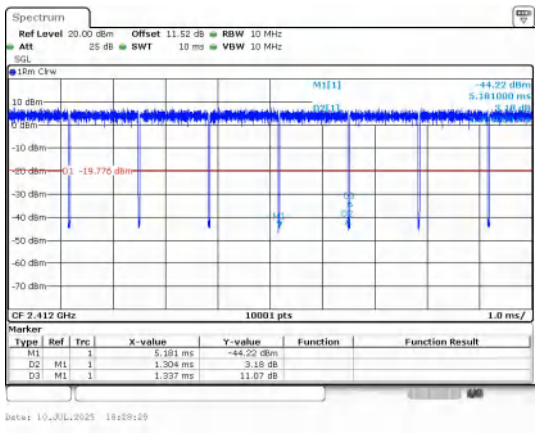
IEEE 802.11g_20MHz_Channel 1



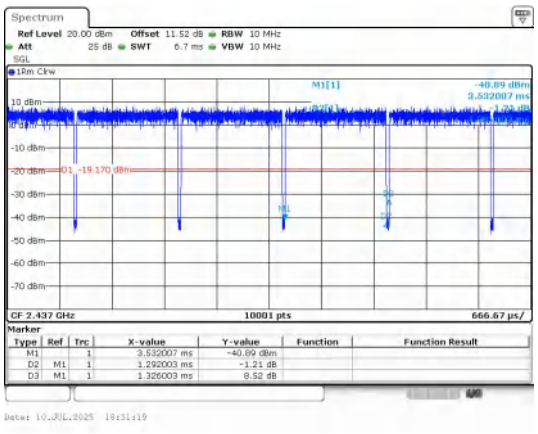
IEEE 802.11g_20MHz_Channel 6



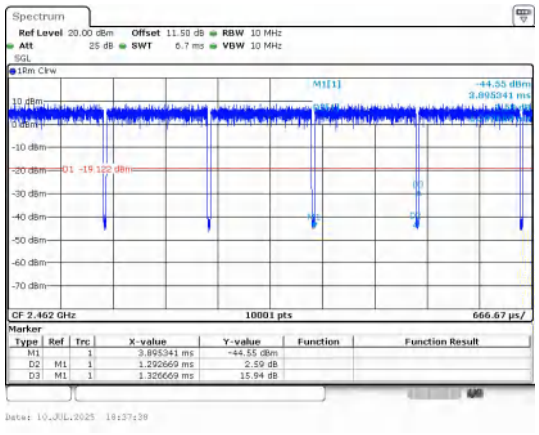
IEEE 802.11g_20MHz_Channel 11



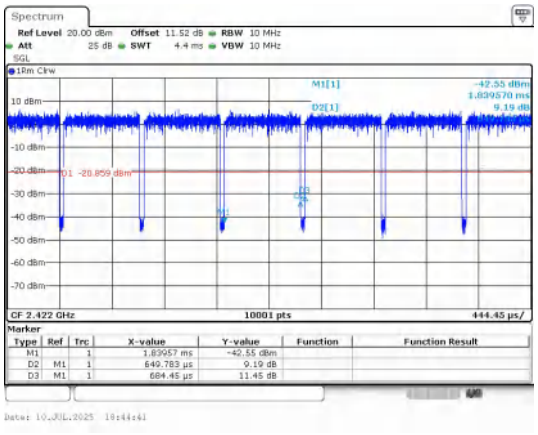
IEEE 802.11n_20MHz_Channel 1



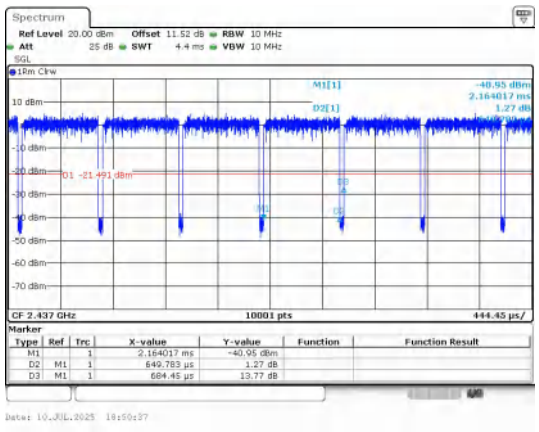
IEEE 802.11n_20MHz_Channel 6



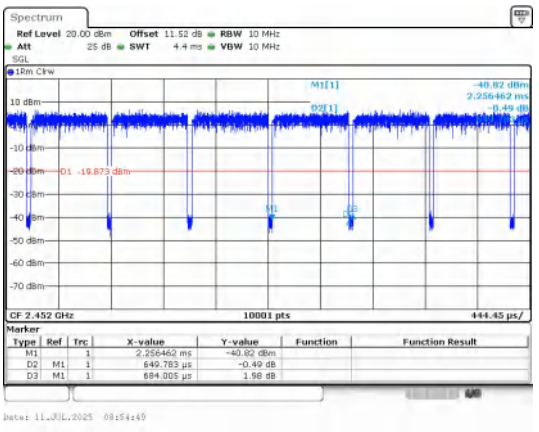
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



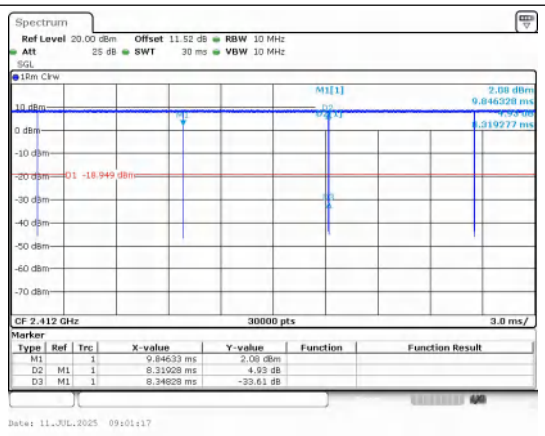
IEEE 802.11n_40MHz_Channel 9

Ant1：

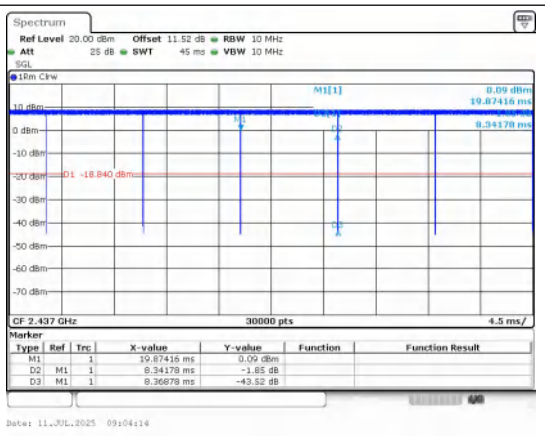
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.348	99.65	0.9965	0.0152	0.1202
		6		8.342	8.369	99.68	0.9968	0.0139	0.1199
		11		8.340	8.369	99.66	0.9966	0.0148	0.1199
IEEE 802.11g		1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.430	97.62	0.9762	0.1046	0.7163
		11		1.396	1.430	97.62	0.9762	0.1046	0.7163
IEEE 802.11n_20	MCS 0	1		1.293	1.327	97.44	0.9744	0.1126	0.7734
		6		1.293	1.327	97.44	0.9744	0.1126	0.7734
		11		1.304	1.337	97.53	0.9753	0.1086	0.7669
IEEE 802.11n_40		3		0.650	0.684	94.94	0.9494	0.2255	1.5385
		6		0.650	0.684	94.94	0.9494	0.2255	1.5385
		9		0.650	0.684	95.00	0.9500	0.2228	1.5385

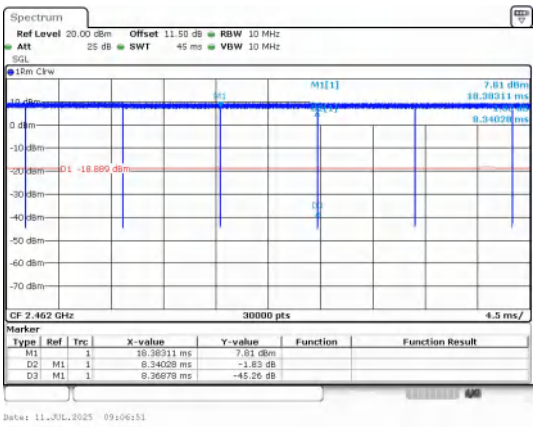
Test Graphs



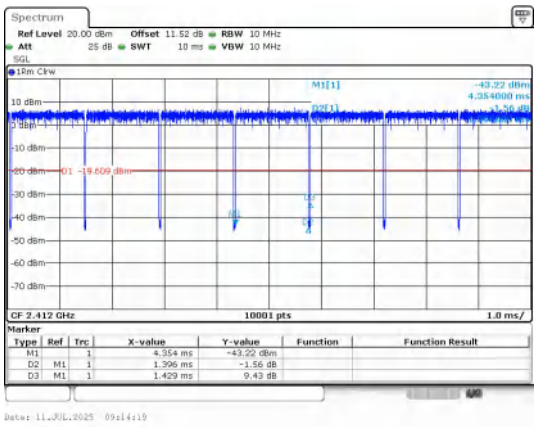
IEEE 802.11b_20MHz_Channel 1



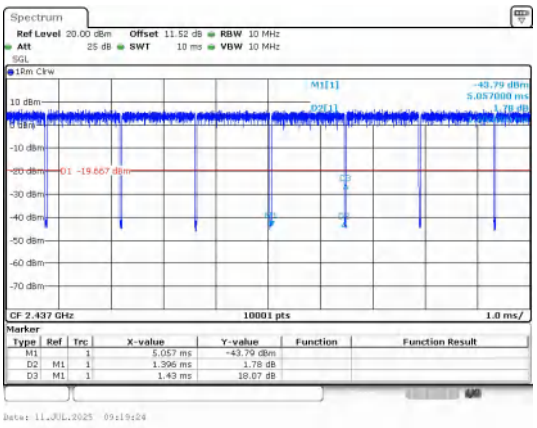
IEEE 802.11b_20MHz_Channel 6



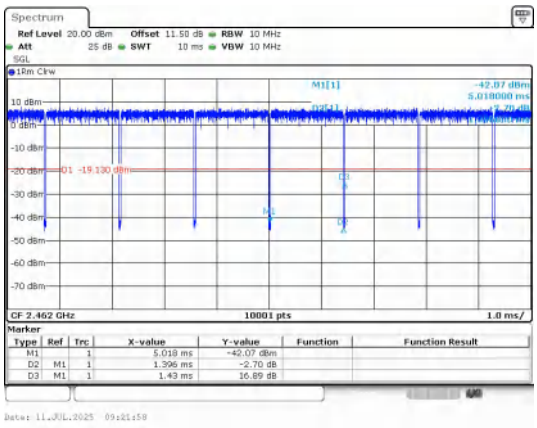
IEEE 802.11b_20MHz_Channel 11



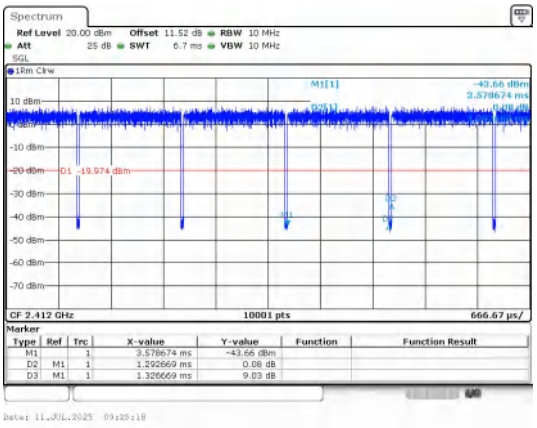
IEEE 802.11g_20MHz_Channel 1



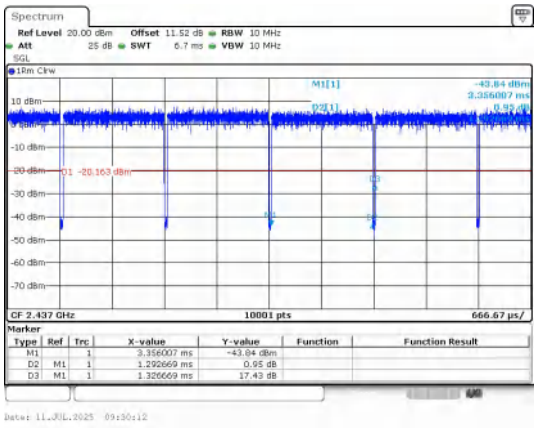
IEEE 802.11g_20MHz_Channel 6



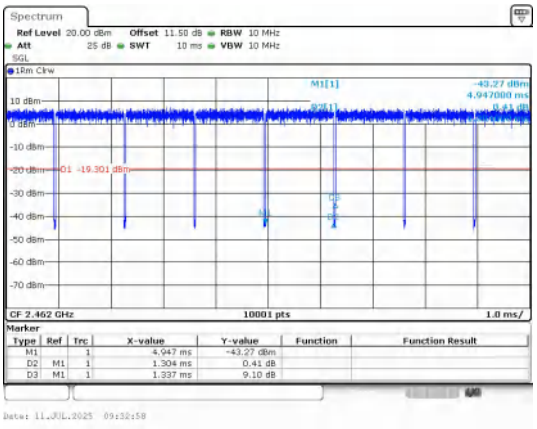
IEEE 802.11g_20MHz_Channel 11

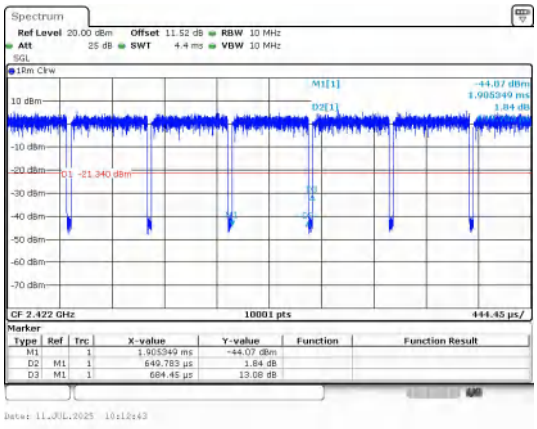


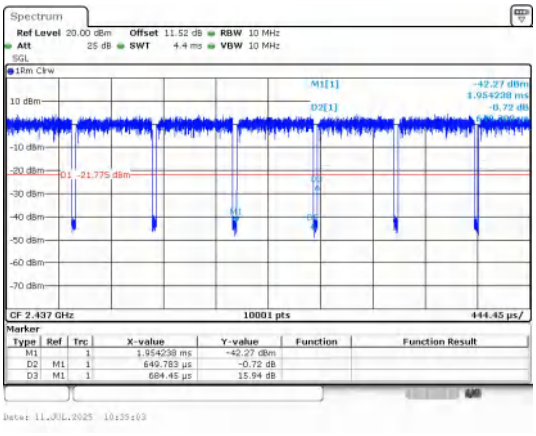
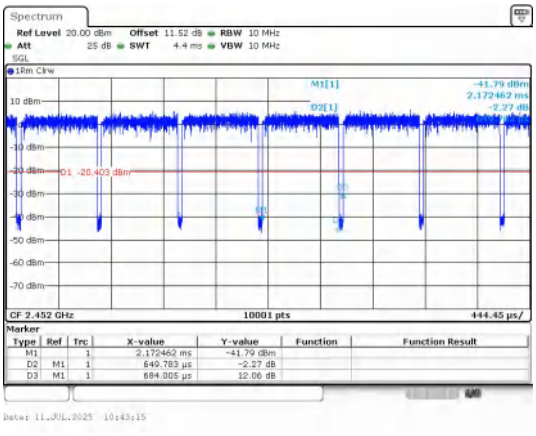
IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6





IEEE 802.11n_20MHz_Channel 11	IEEE 802.11n_40MHz_Channel 3
	
IEEE 802.11n_40MHz_Channel 6	**IEEE 802.11n_40MHz_Channel 9**

8.2. Power Spectral Density

Test Result

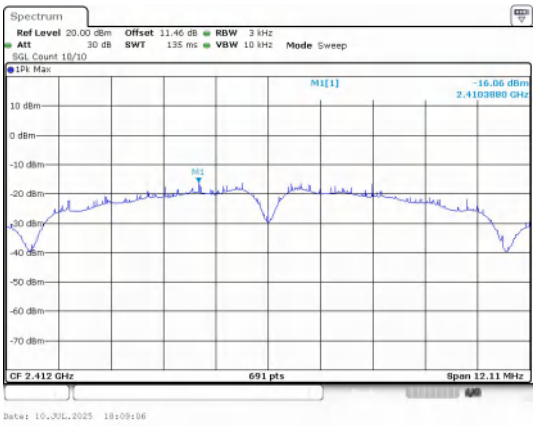
Mode	Channel	PSD (dBm/3kHz) Ant. 0	PSD (dBm/3kHz) Ant. 1	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-16.060	-16.410	≤8	PASS
	6	-16.930	-15.820		PASS
	11	-16.580	-14.520		PASS
IEEE 802.11g	1	-19.890	-20.760		PASS
	6	-20.630	-20.940		PASS
	11	-19.210	-19.130		PASS
IEEE 802.11n_20	1	-20.150	-21.080		PASS
	6	-20.900	-22.040		PASS
	11	-18.900	-21.120		PASS
IEEE 802.11n_40	3	-22.690	-22.630		PASS
	6	-23.250	-23.610		PASS
	9	-22.350	-22.680		PASS

MIMO

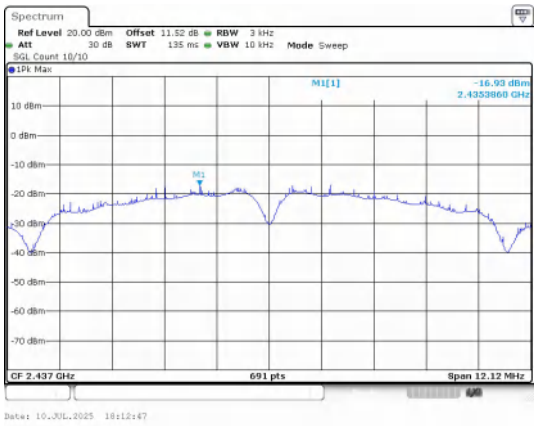
Mode	Channel	PSD (dBm/3kHz) Ant. 0	PSD (dBm/3kHz) Ant. 0	PSD (dBm/3kHz) Ant. 1+Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11n_20	1	-20.150	-21.080	-17.58	≤6.65	PASS
	6	-20.900	-22.040	-18.42		PASS
	11	-18.900	-21.120	-16.86		PASS
IEEE 802.11n_40	3	-22.690	-22.630	-19.65		PASS
	6	-23.250	-23.610	-20.42		PASS
	9	-22.350	-22.680	-19.50		PASS

Ant0:

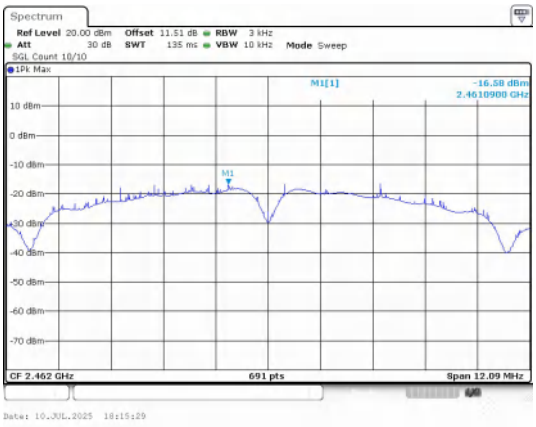
Test Graphs



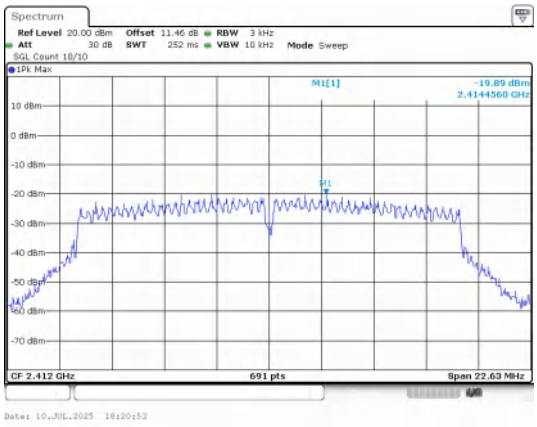
IEEE 802.11b_Channel 1_20MHz_Antenna 0



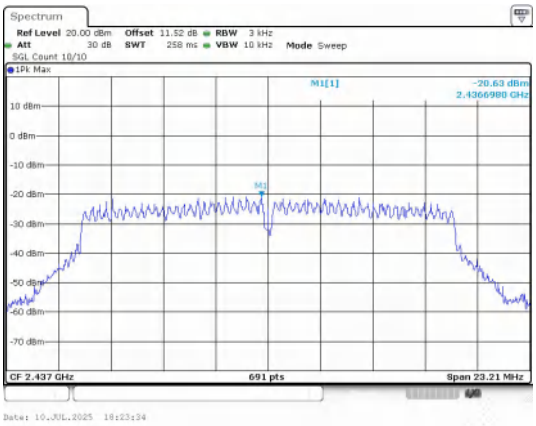
IEEE 802.11b_Channel 6_20MHz_Antenna 0



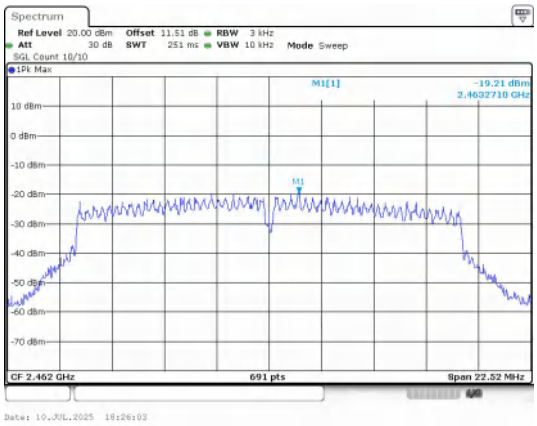
IEEE 802.11b_Channel 11_20MHz_Antenna 0



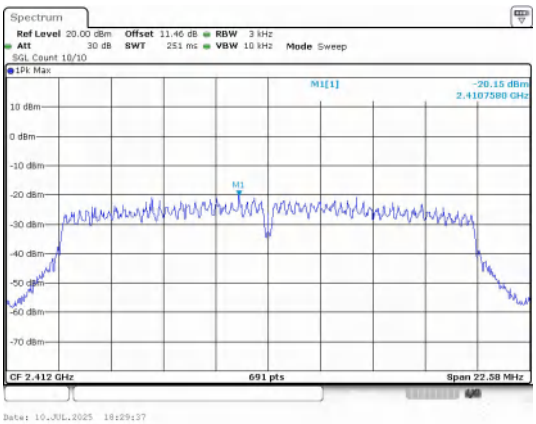
IEEE 802.11g_Channel 1_20MHz_Antenna 0



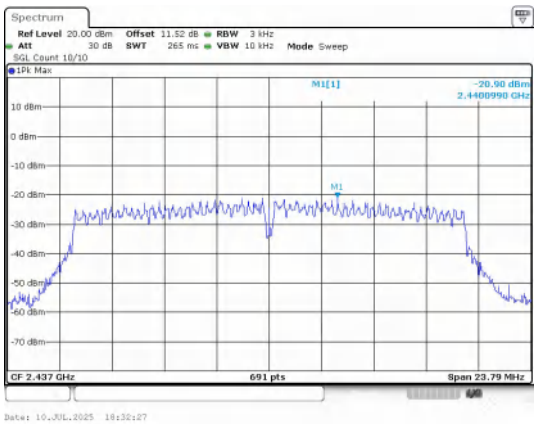
IEEE 802.11g_Channel 6_20MHz_Antenna 0



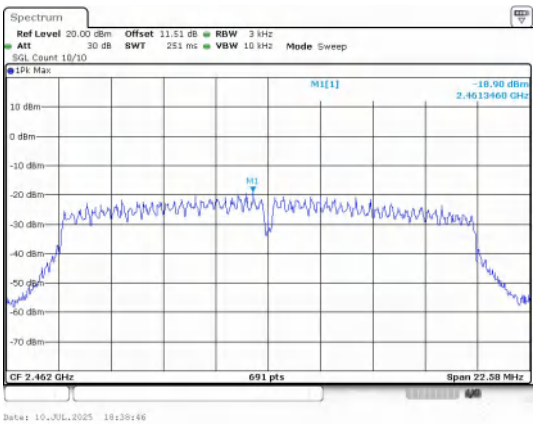
IEEE 802.11g_Channel 11_20MHz_Antenna 0



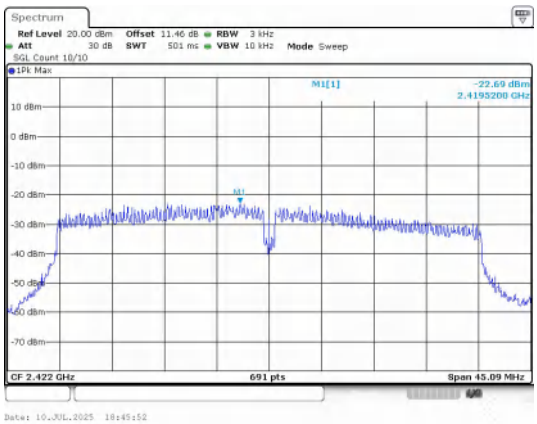
IEEE 802.11n_Channel 1_20MHz_Antenna 0



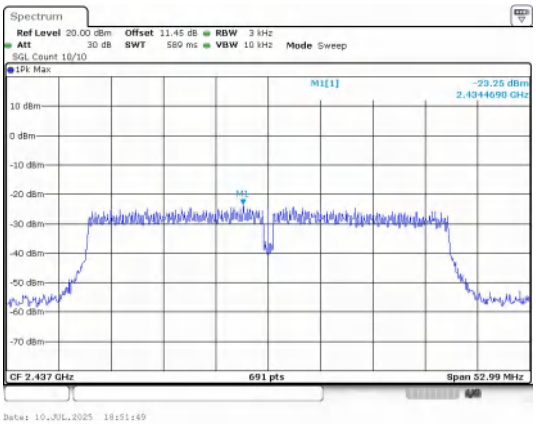
IEEE 802.11n_Channel 6_20MHz_Antenna 0



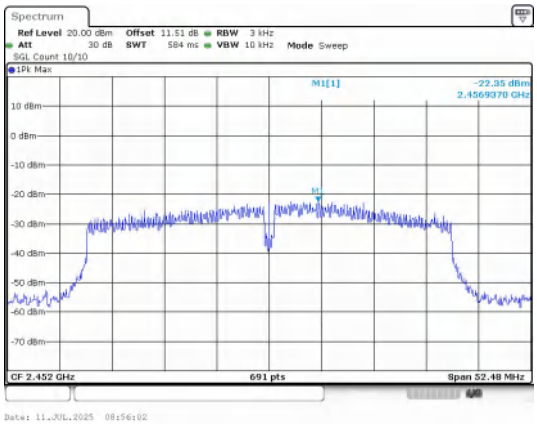
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



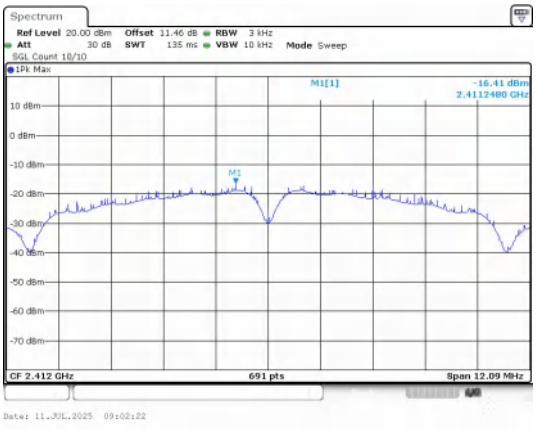
IEEE 802.11n_Channel 6_40MHz_Antenna 0



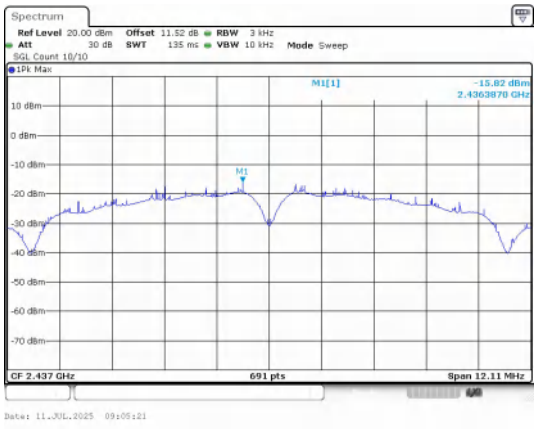
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant1：

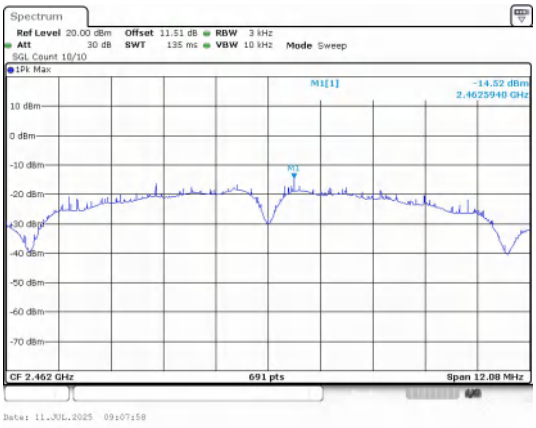
Test Graphs



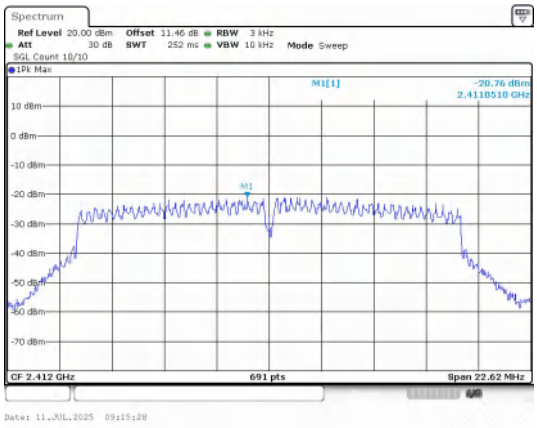
IEEE 802.11b_Channel 1_20MHz_Antenna 0



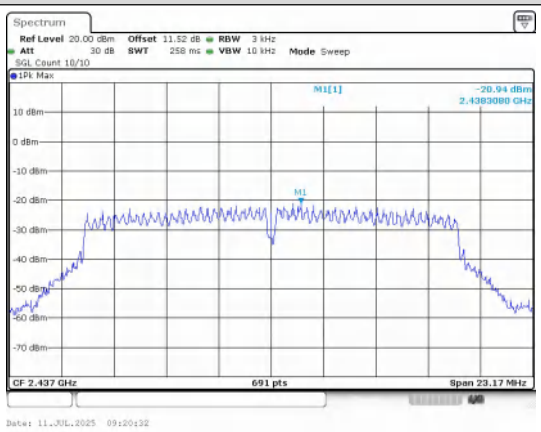
IEEE 802.11b_Channel 6_20MHz_Antenna 0



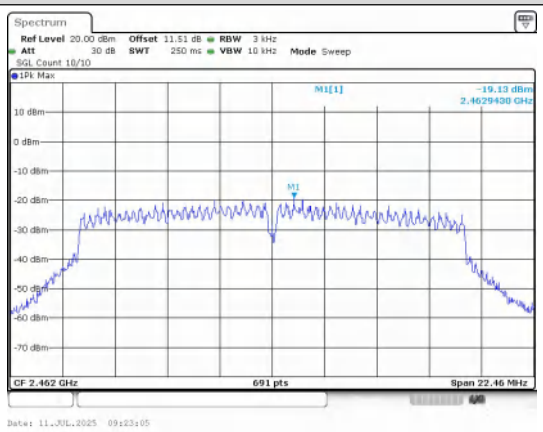
IEEE 802.11b_Channel 11_20MHz_Antenna 0



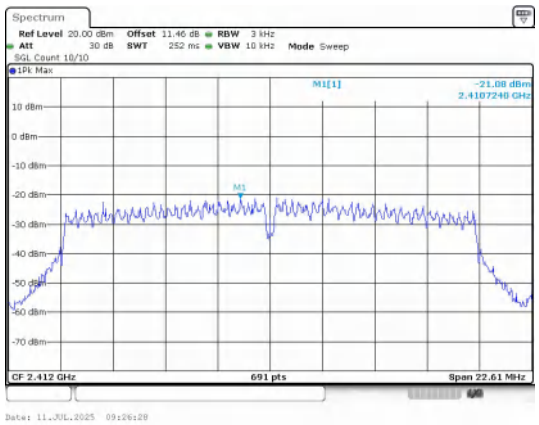
IEEE 802.11g_Channel 1_20MHz_Antenna 0



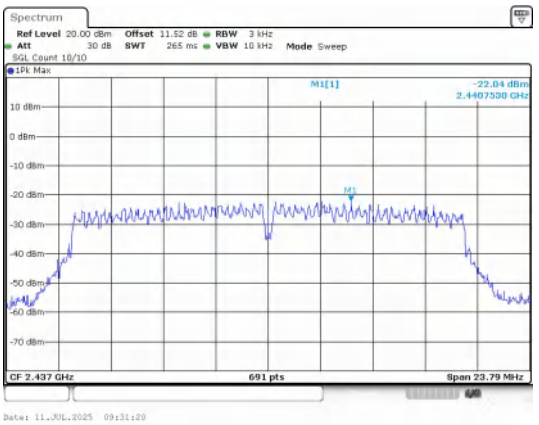
IEEE 802.11g_Channel 6_20MHz_Antenna 0



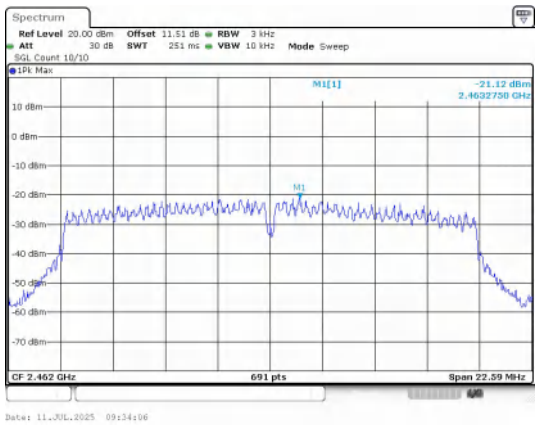
IEEE 802.11g_Channel 11_20MHz_Antenna 0



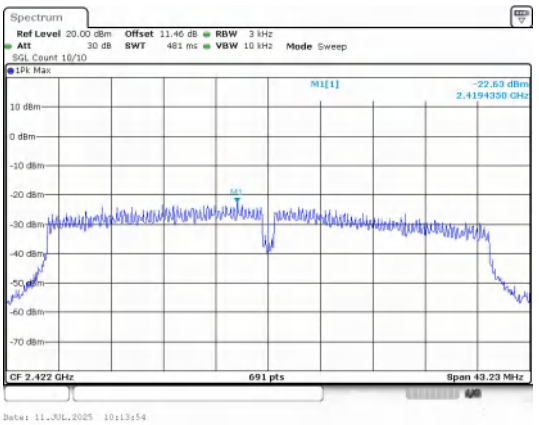
IEEE 802.11n_Channel 1_20MHz_Antenna 0



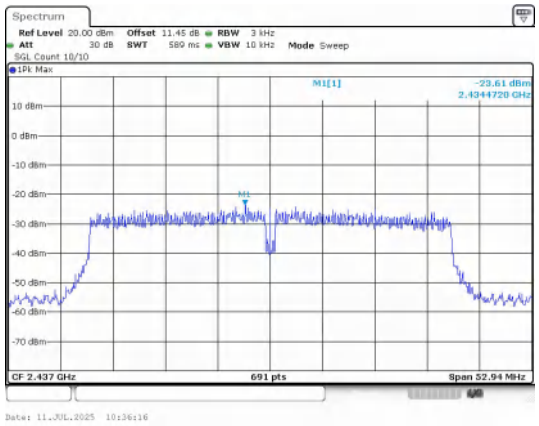
IEEE 802.11n_Channel 6_20MHz_Antenna 0



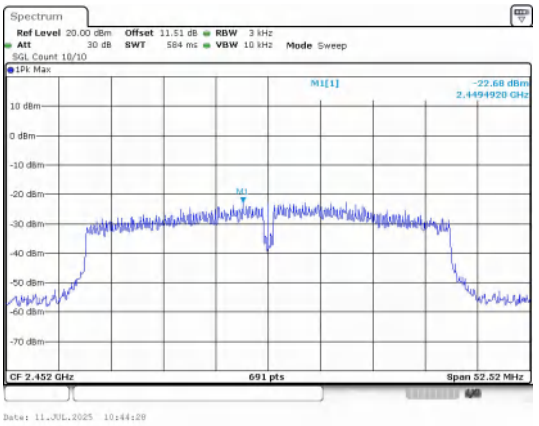
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

8.3. Conducted Output Power

Test Result

Conducted Output Power

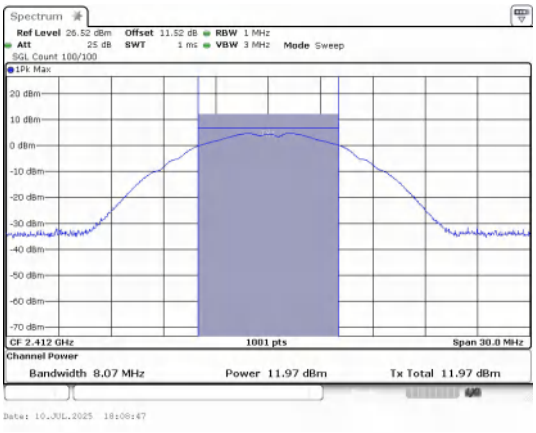
Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	11.97	11.60	≤30	PASS
	6	11.43	11.04	≤30	PASS
	11	12.08	11.78	≤30	PASS
IEEE 802.11g	1	14.00	13.68	≤30	PASS
	6	13.64	13.25	≤30	PASS
	11	14.30	13.95	≤30	PASS
IEEE 802.11n_20	1	13.46	13.10	≤30	PASS
	6	13.61	12.74	≤30	PASS
	11	14.15	13.36	≤30	PASS
IEEE 802.11n_40	3	13.32	12.80	≤30	PASS
	6	13.50	12.97	≤30	PASS
	9	14.10	13.54	≤30	PASS

MIMO

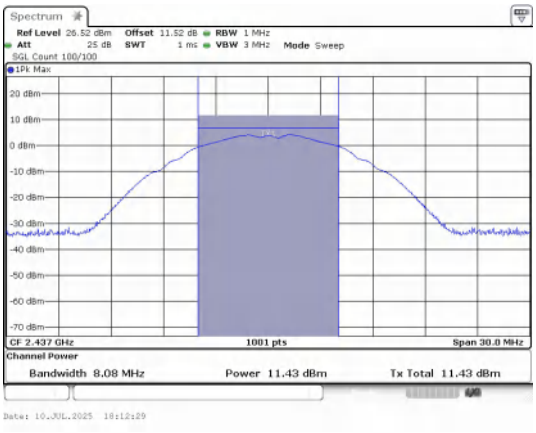
Mode	Channel	Ant0 (dBm)	Ant1 (dBm)	Ant. 1+Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11n_20	1	13.46	13.10	16.29	⩽28.65	PASS
	6	13.61	12.74	16.21		PASS
	11	14.15	13.36	16.78		PASS
IEEE 802.11n_40	3	13.32	12.80	16.08		PASS
	6	13.50	12.97	16.25		PASS
	9	14.10	13.54	16.84		PASS

Ant0:

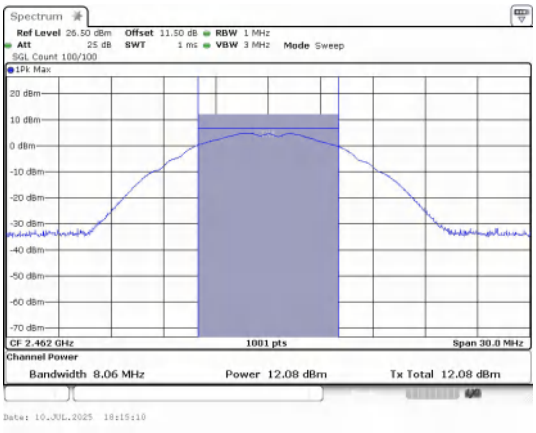
Test Graphs



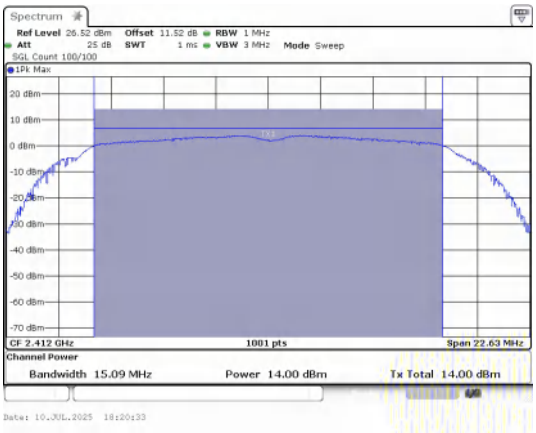
Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 0



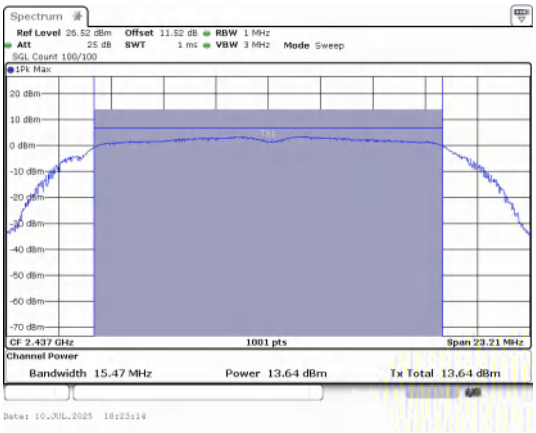
Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 0



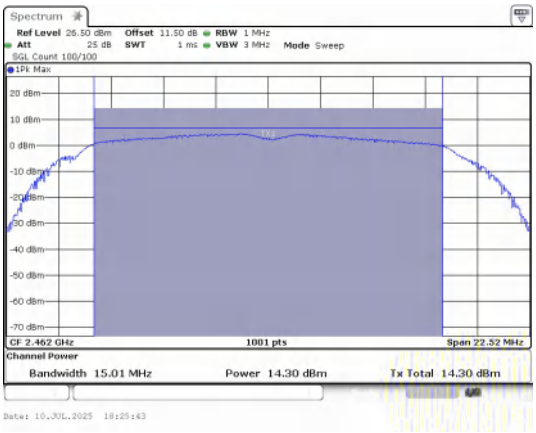
Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0



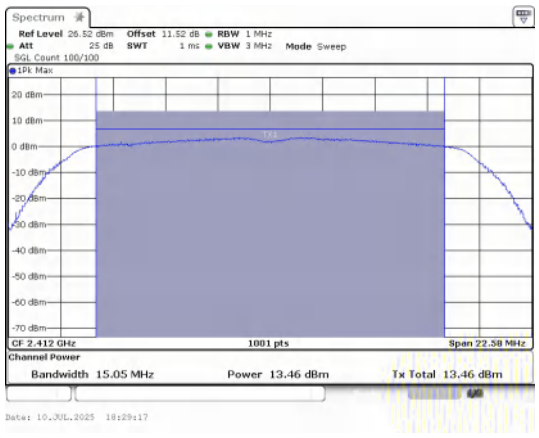
Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 0



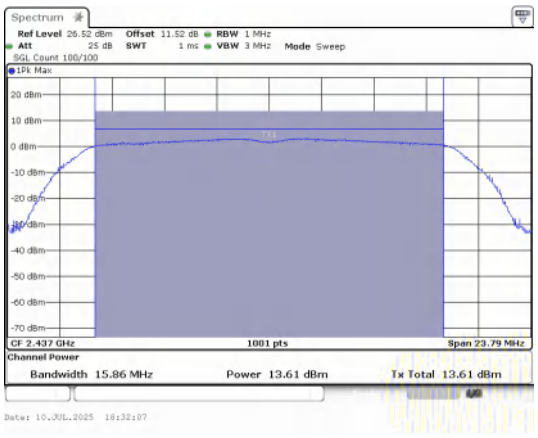
Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0



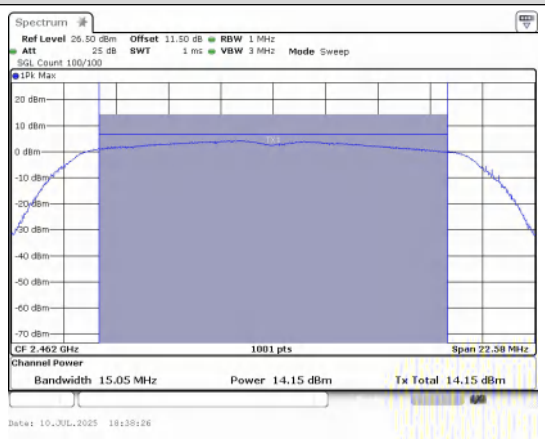
Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0



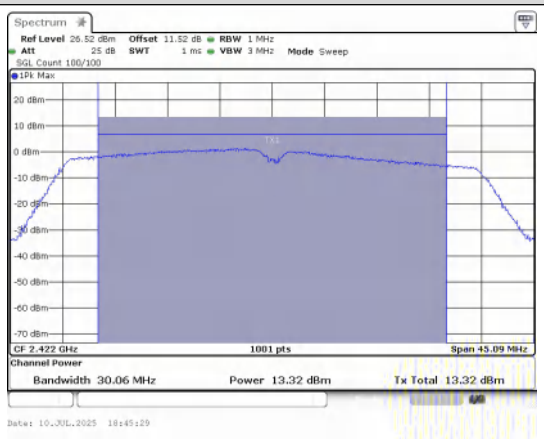
Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0



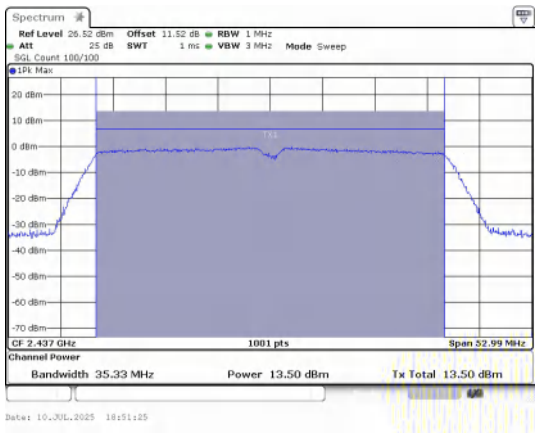
Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0



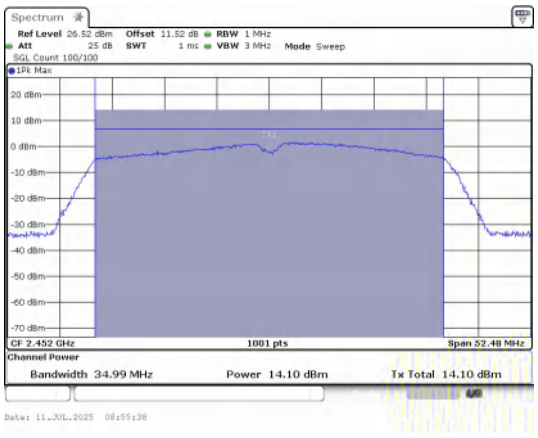
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0



Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 0



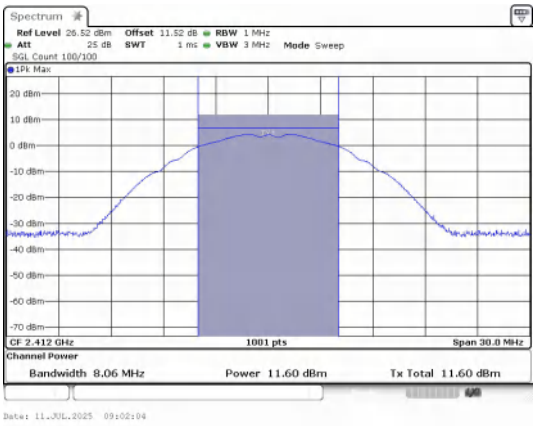
Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 0



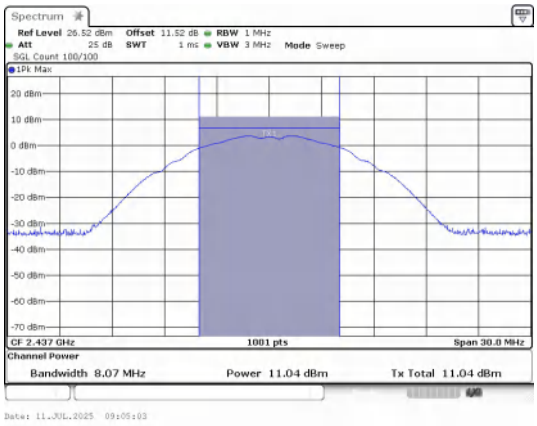
Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 0

Ant1：

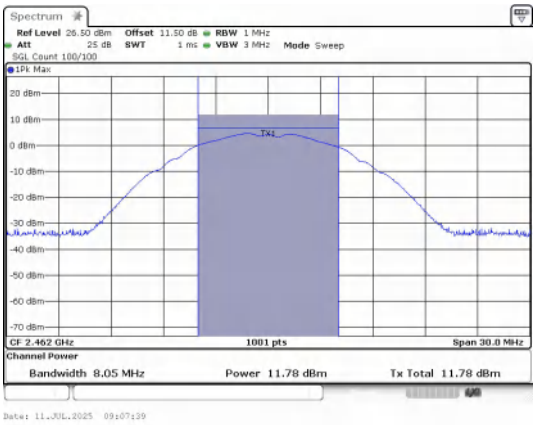
Test Graphs



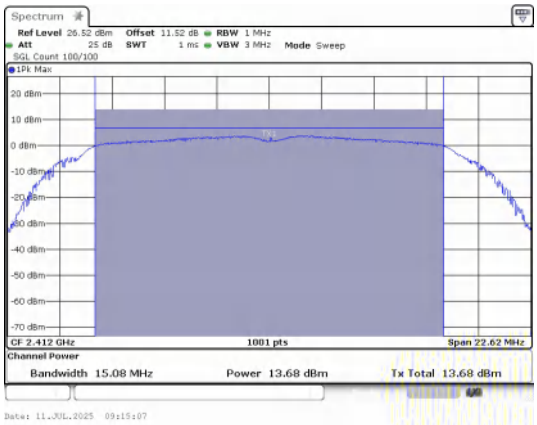
Conducted Output Power
IEEE 802.11b_Channel 1_Antenna 0



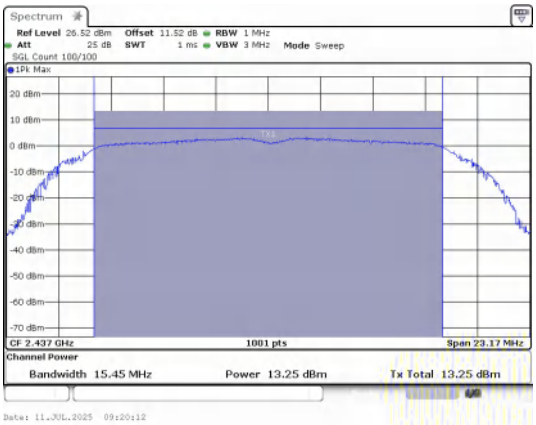
Conducted Output Power
IEEE 802.11b_Channel 6_Antenna 0



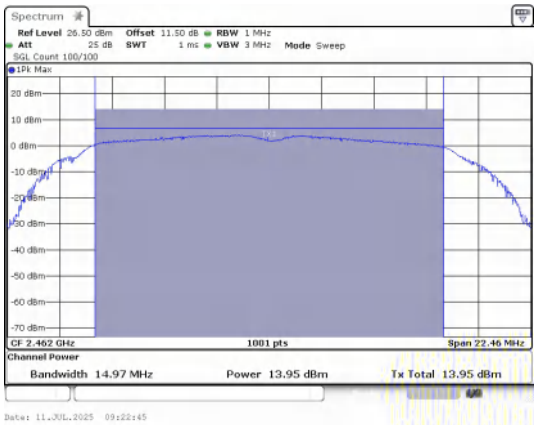
Conducted Output Power
IEEE 802.11b_Channel 11_Antenna 0



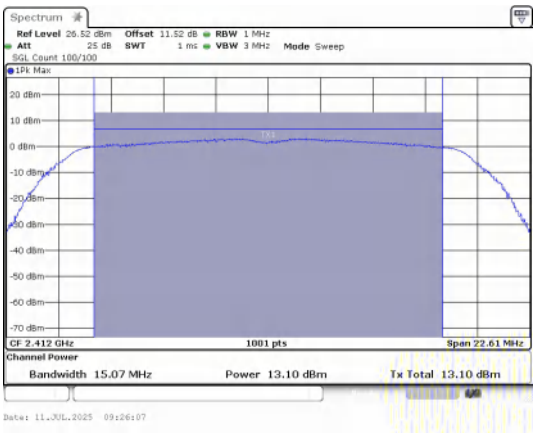
Conducted Output Power
IEEE 802.11g_Channel 1_Antenna 0



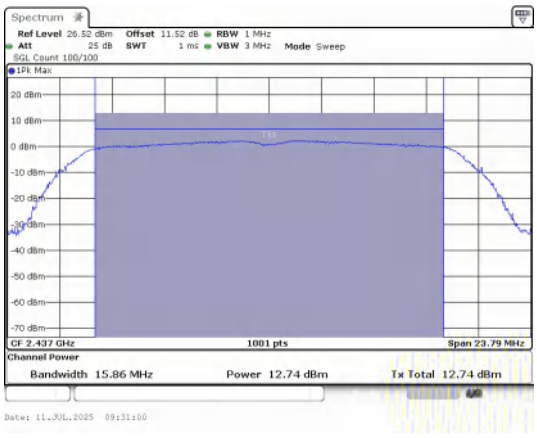
Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0



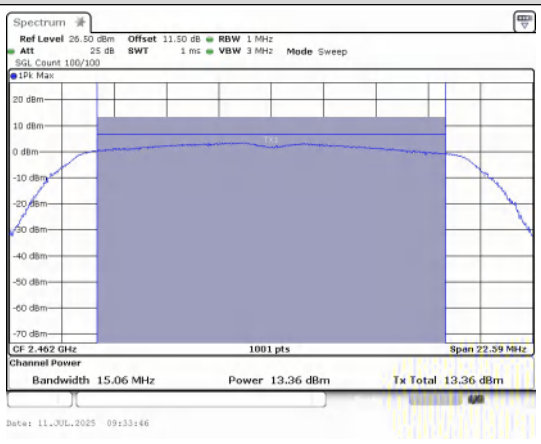
Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0



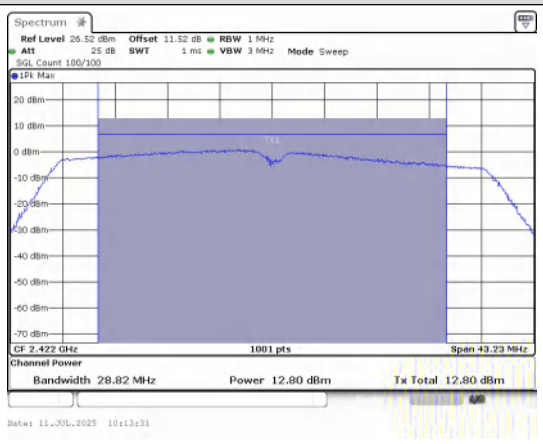
Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0



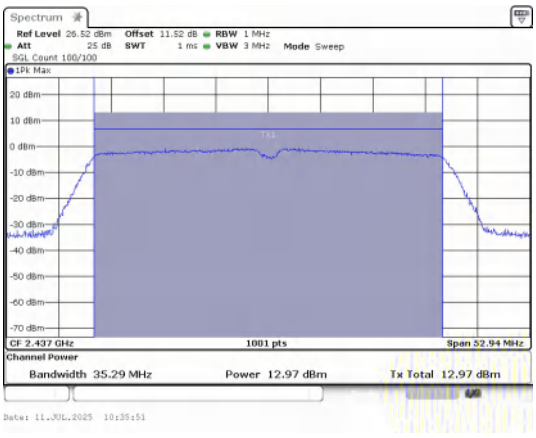
Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0



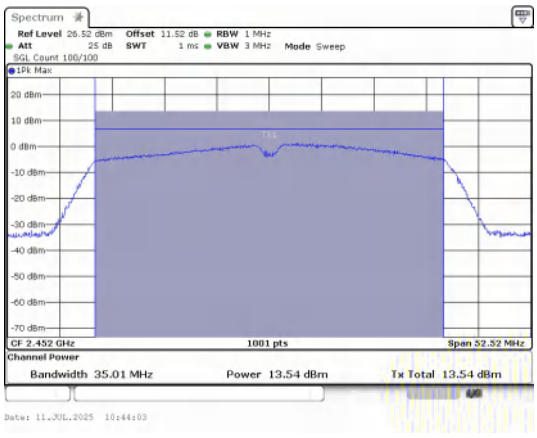
Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0



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

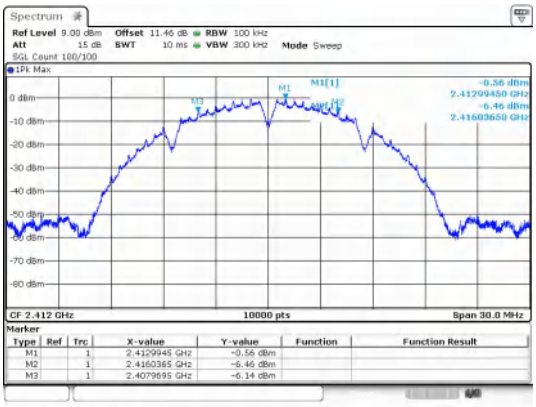
8.4. 6dB Bandwidth

Ant0：

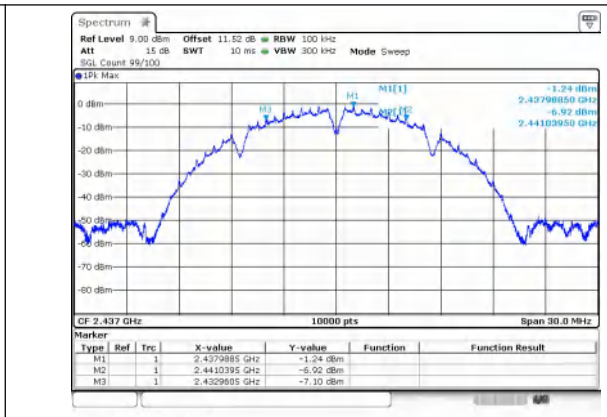
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.070	≥0.5	PASS
	6		2437	8.080		PASS
	11		2462	8.060		PASS
IEEE 802.11g	1		2412	15.09		PASS
	6		2437	15.47		PASS
	11		2462	15.01		PASS
IEEE 802.11n_20	1		2412	15.05		PASS
	6		2437	15.86		PASS
	11		2462	15.05		PASS
IEEE 802.11n_40	3		2422	30.06		PASS
	6		2437	35.33		PASS
	9		2452	34.99		PASS

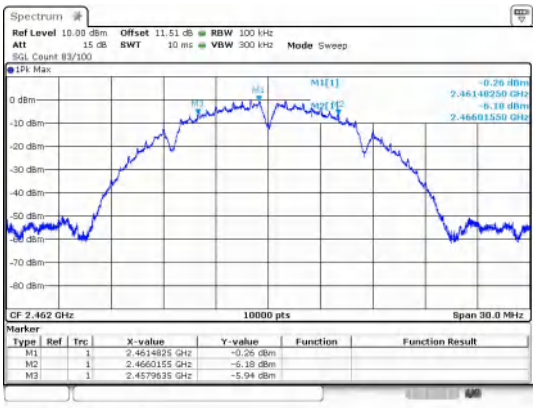
Test Graphs



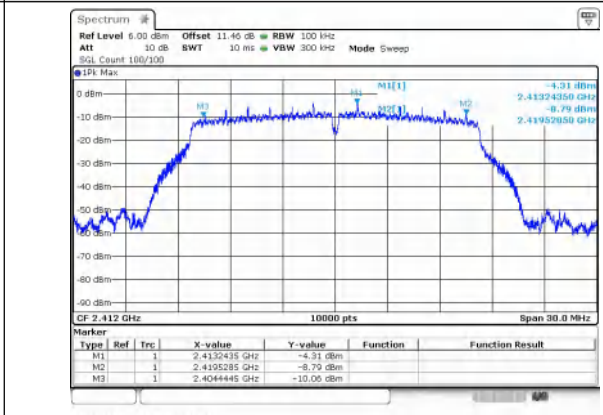
IEEE 802.11b_Channel 1_20MHz_Antenna 0



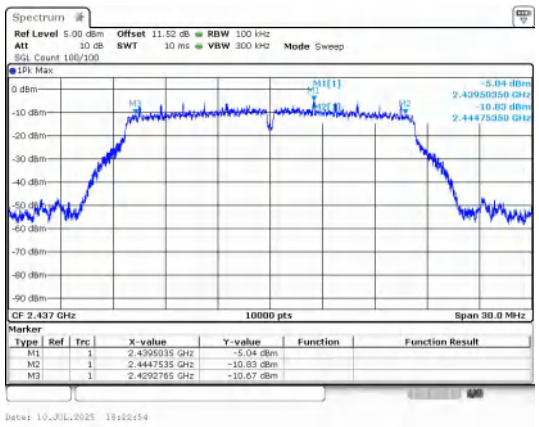
IEEE 802.11b_Channel 6_20MHz_Antenna 0



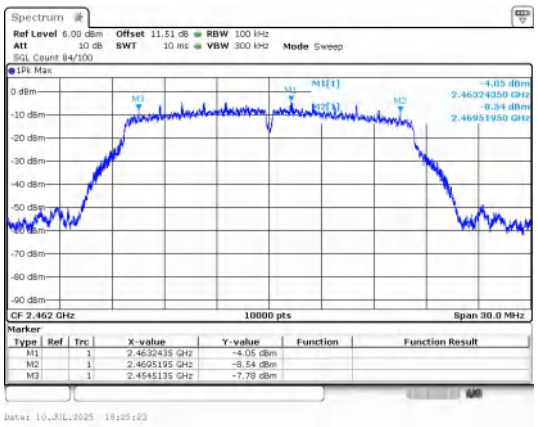
IEEE 802.11b_Channel 11_20MHz_Antenna 0



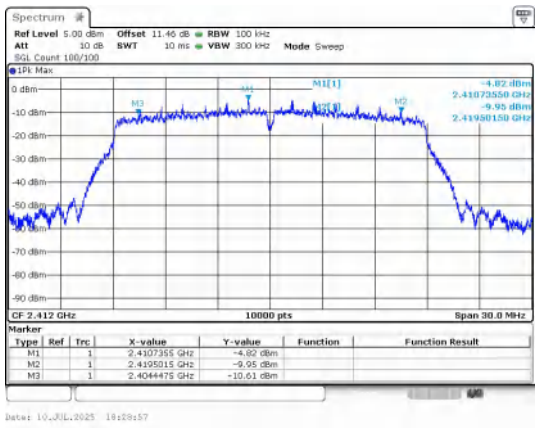
IEEE 802.11g_Channel 1_20MHz_Antenna 0



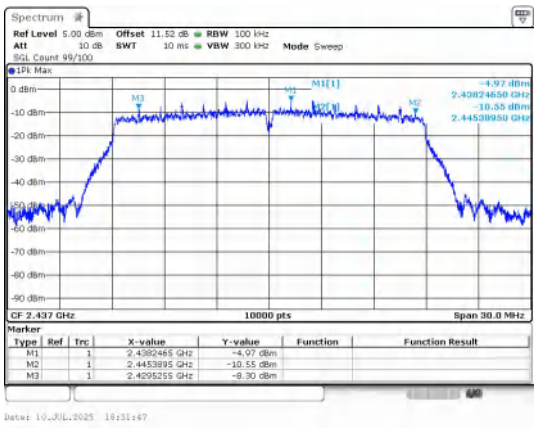
IEEE 802.11g_Channel 6_20MHz_Antenna 0



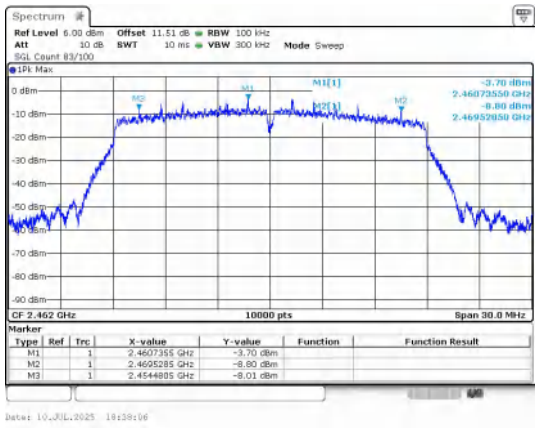
IEEE 802.11g_Channel 11_20MHz_Antenna 0



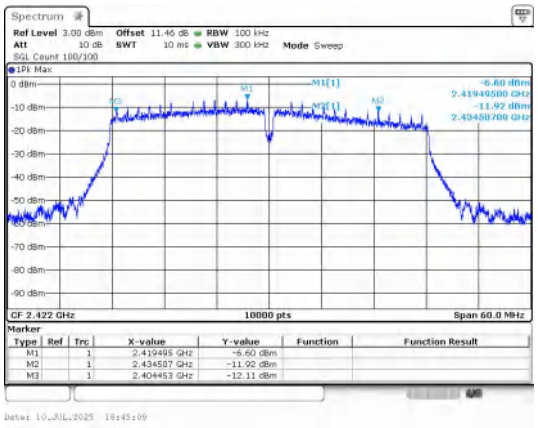
IEEE 802.11n_Channel 1_20MHz_Antenna 0



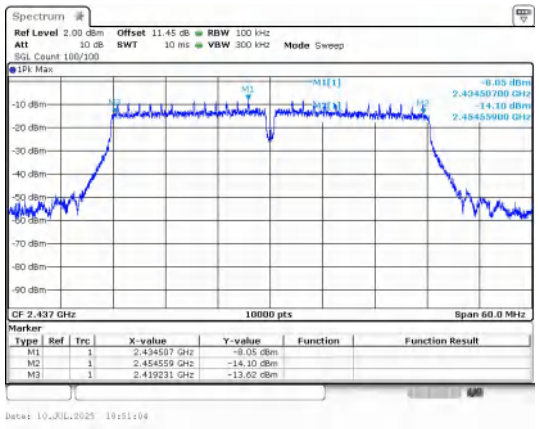
IEEE 802.11n_Channel 6_20MHz_Antenna 0



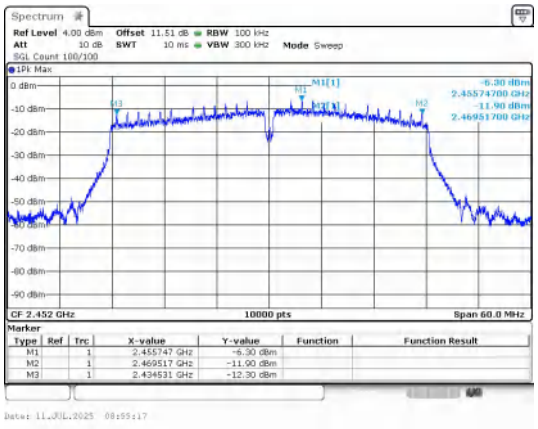
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



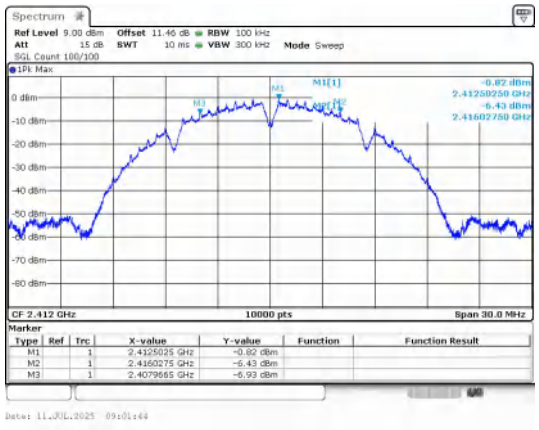
IEEE 802.11n_Channel 6_40MHz_Antenna 0	IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant1：

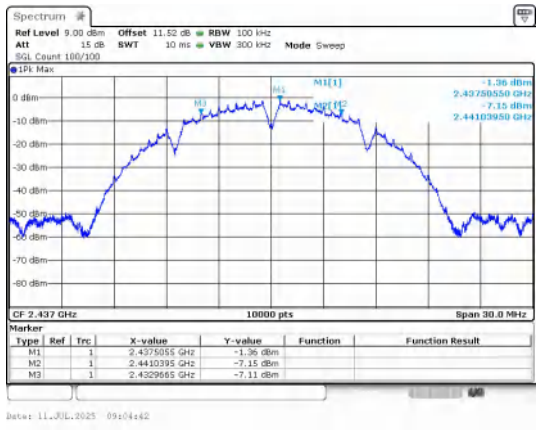
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.060	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	8.050		PASS
IEEE 802.11g	1		2412	15.08		PASS
	6		2437	15.45		PASS
	11		2462	14.97		PASS
IEEE 802.11n_20	1		2412	15.07		PASS
	6		2437	15.86		PASS
	11		2462	15.06		PASS
IEEE 802.11n_40	3		2422	28.82		PASS
	6		2437	35.29		PASS
	9		2452	35.01		PASS

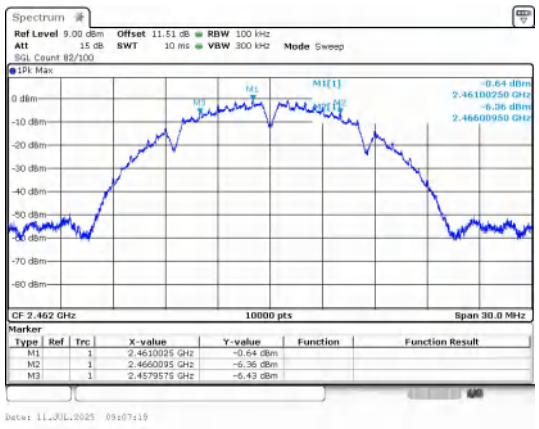
Test Graphs



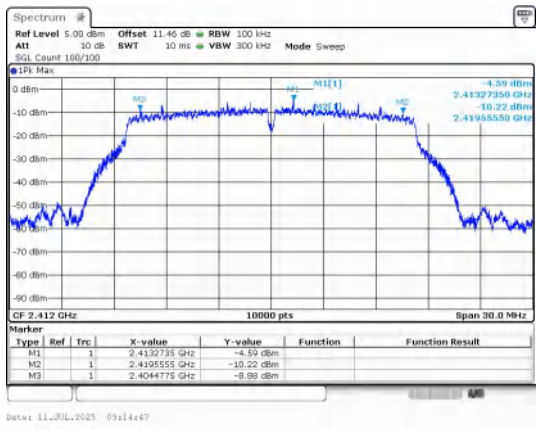
IEEE 802.11b_Channel 1_20MHz_Antenna 0



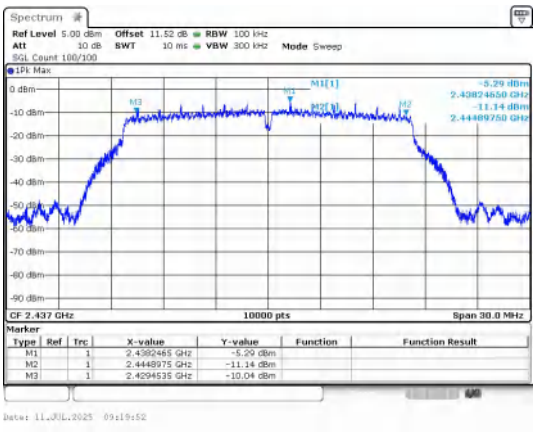
IEEE 802.11b_Channel 6_20MHz_Antenna 0



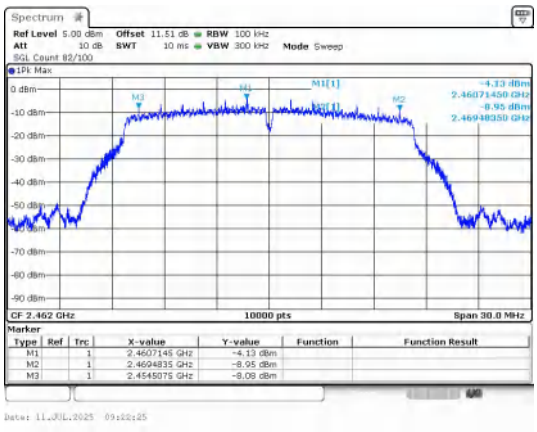
IEEE 802.11b_Channel 11_20MHz_Antenna 0



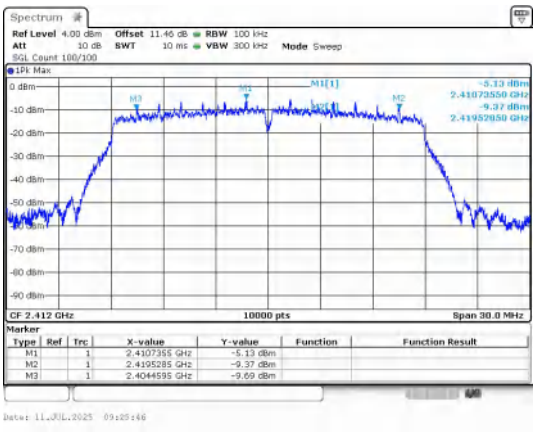
IEEE 802.11g_Channel 1_20MHz_Antenna 0



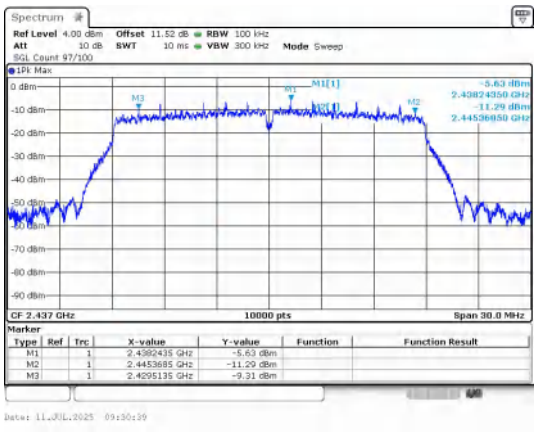
IEEE 802.11g_Channel 6_20MHz_Antenna 0



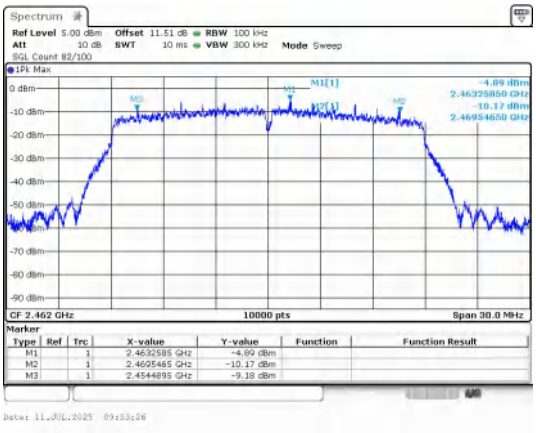
IEEE 802.11g_Channel 11_20MHz_Antenna 0



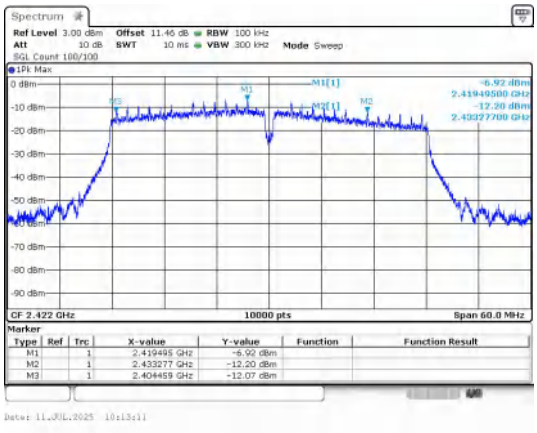
IEEE 802.11n_Channel 1_20MHz_Antenna 0



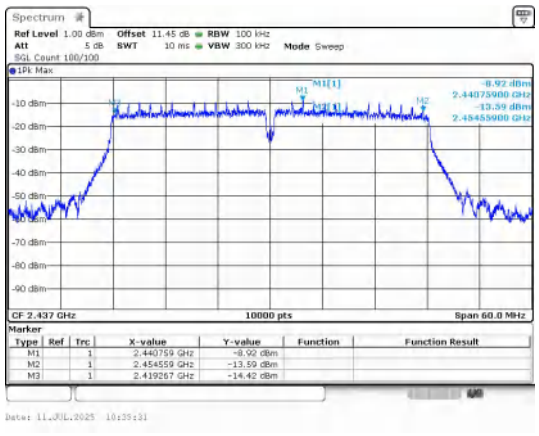
IEEE 802.11n_Channel 6_20MHz_Antenna 0



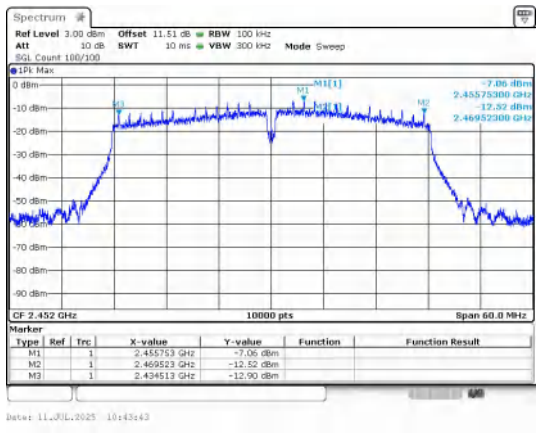
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

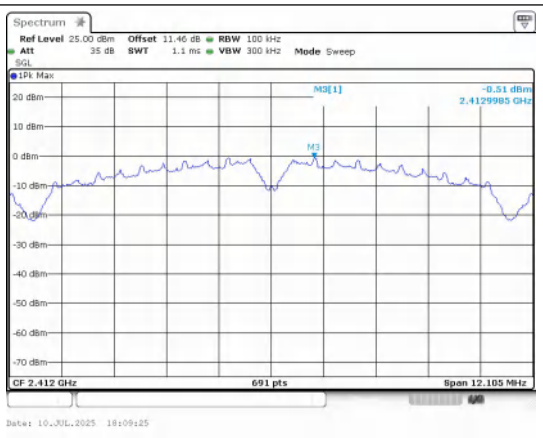
8.5. Conducted Out Of Band Emission

Ant0：

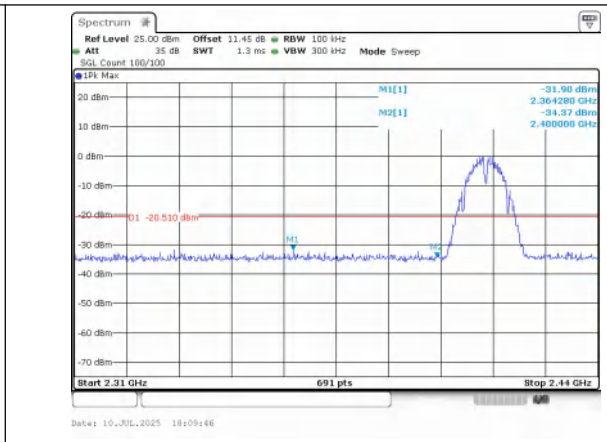
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2364.28	-31.898	-20.51	-11.388	PASS
			2400.00	-34.370	-20.51	-13.860	PASS
			22091.4	-38.627	-20.51	-18.117	PASS
	6		6915.48	-38.699	-21.1	-17.599	PASS
	11		2483.50	-33.930	-20.3	-13.630	PASS
			24671.6	-39.276	-20.3	-18.976	PASS
IEEE 802.11g	1		2352.24	-32.558	-24.16	-8.398	PASS
			2400.00	-33.330	-24.16	-9.170	PASS
			4537.50	-38.556	-24.16	-14.396	PASS
	6		6927.96	-38.508	-24.73	-13.778	PASS
	11		2483.50	-34.300	-24.8	-9.500	PASS
			6962.92	-38.151	-24.8	-13.351	PASS
IEEE 802.11n_20	1		2369.73	-32.252	-25.02	-7.232	PASS
			2400.00	-34.520	-25.02	-9.500	PASS
			5928.30	-39.143	-25.02	-14.123	PASS
	6		6900.50	-38.410	-24.88	-13.530	PASS
	11		2483.50	-33.980	-23.83	-10.150	PASS
			6952.93	-36.586	-23.83	-12.756	PASS
IEEE 802.11n_40	3		2346.03	-32.365	-26.71	-5.655	PASS
			2400.00	-33.020	-26.71	-6.310	PASS
			23296.6	-38.327	-26.71	-11.617	PASS
	6		22004.0	-36.941	-27.71	-9.231	PASS
	9		2483.50	-34.340	-25.95	-8.390	PASS
			22089.7	-39.173	-25.95	-13.223	PASS

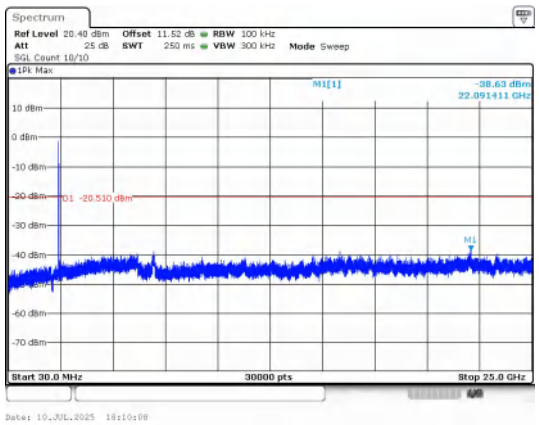
Test Graphs



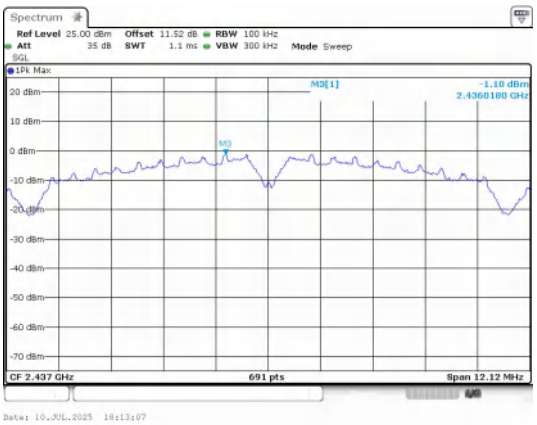
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



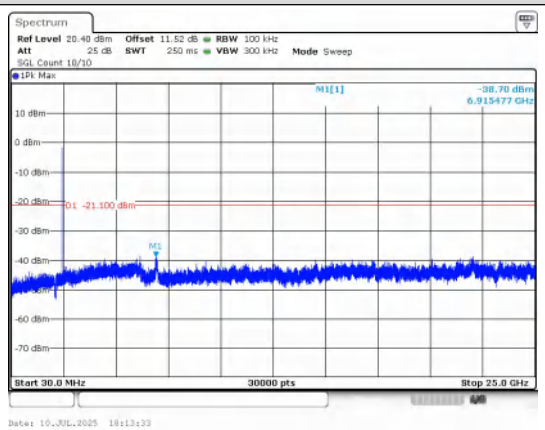
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



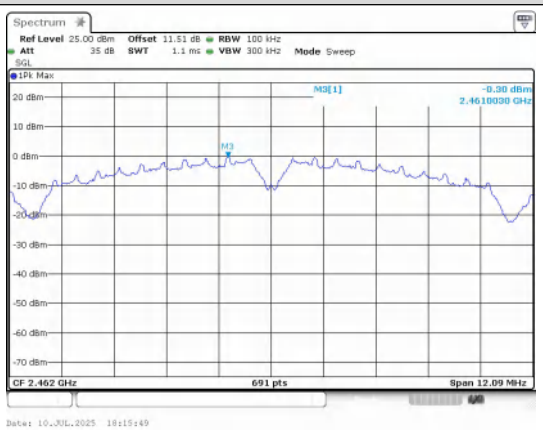
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



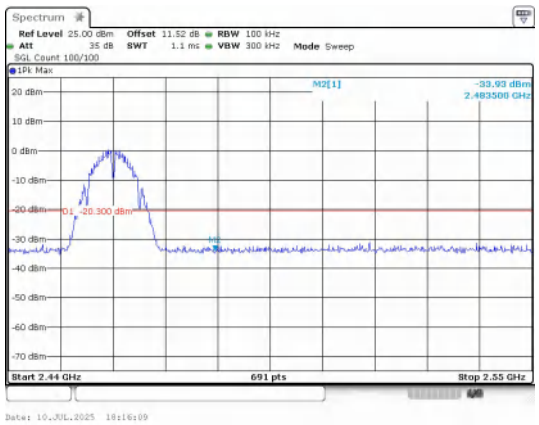
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



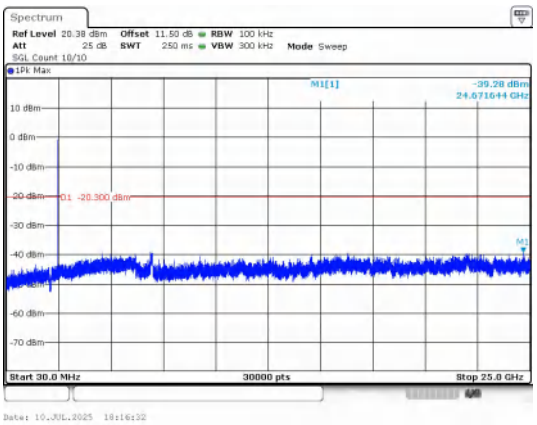
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



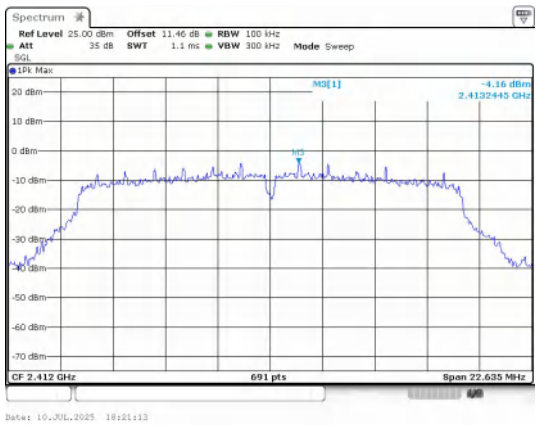
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



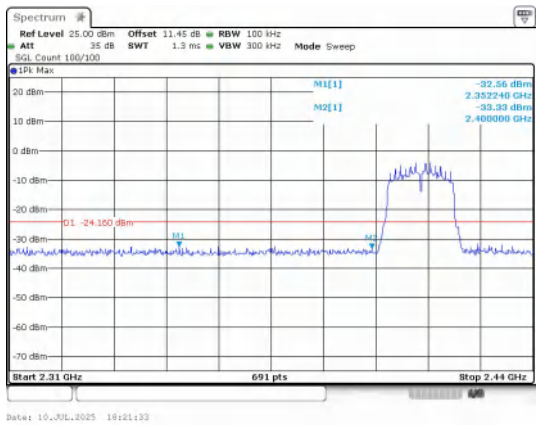
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



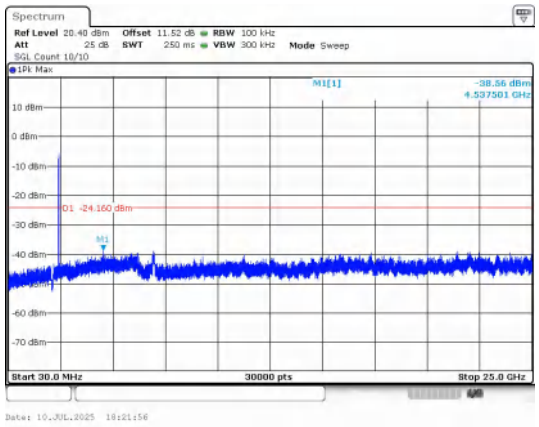
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



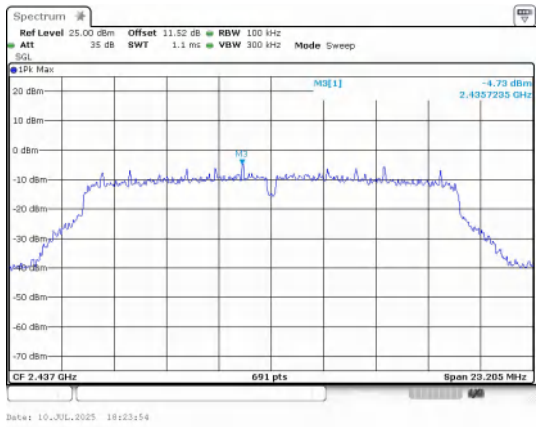
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



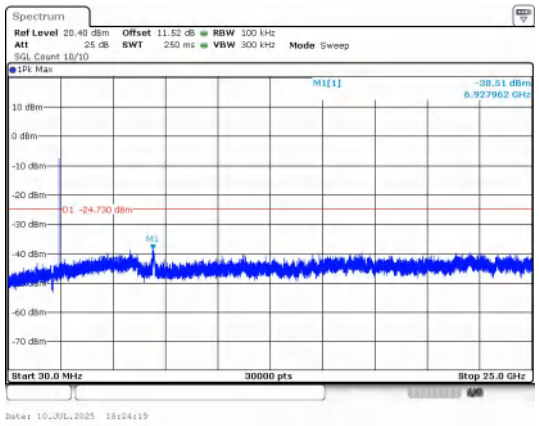
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



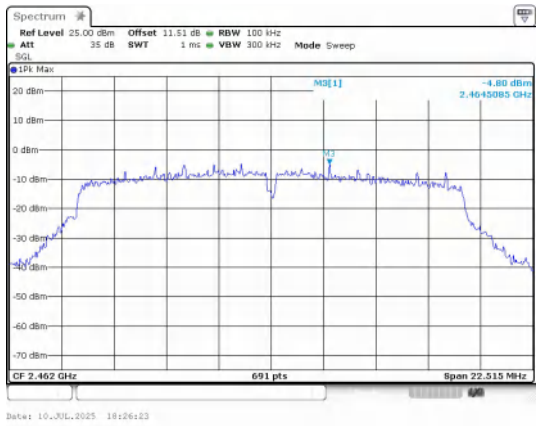
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



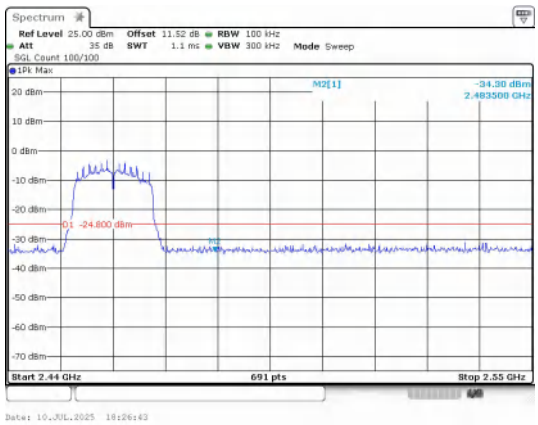
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



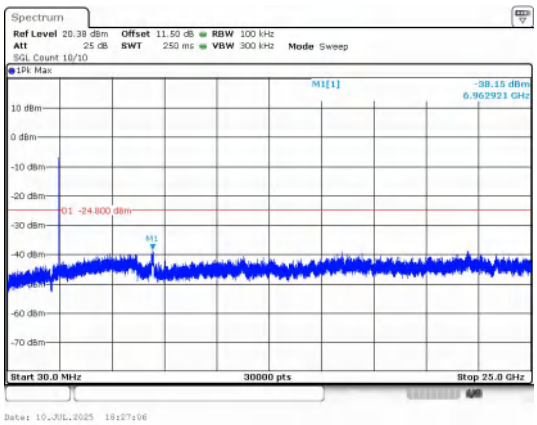
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



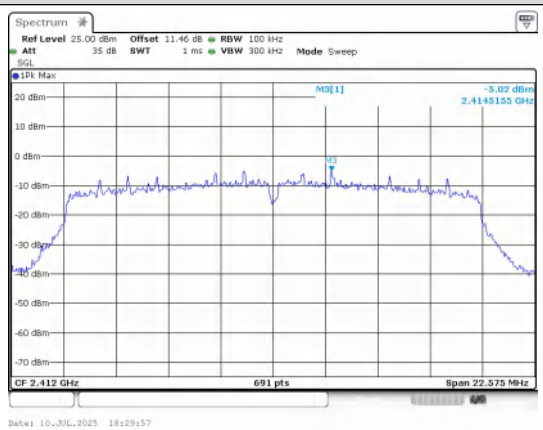
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



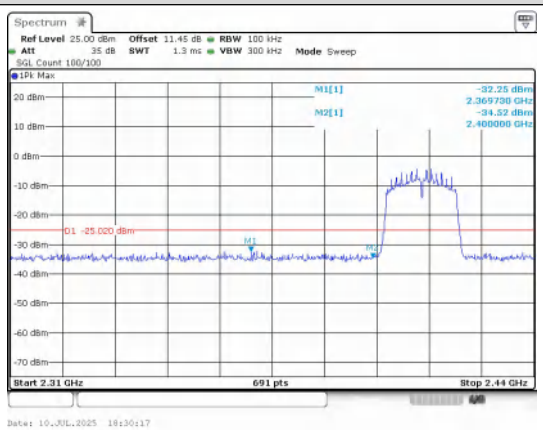
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



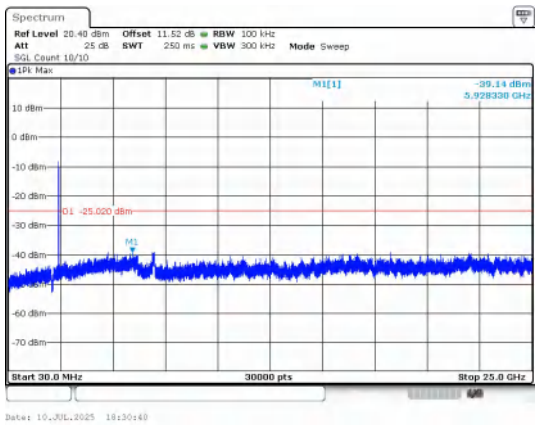
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



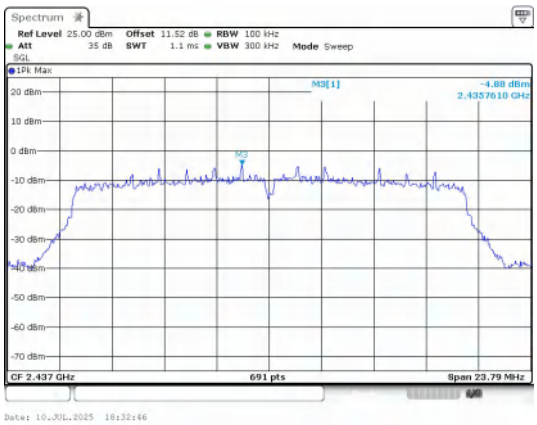
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



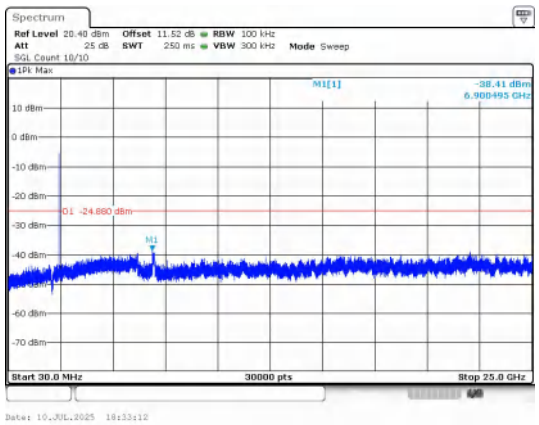
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



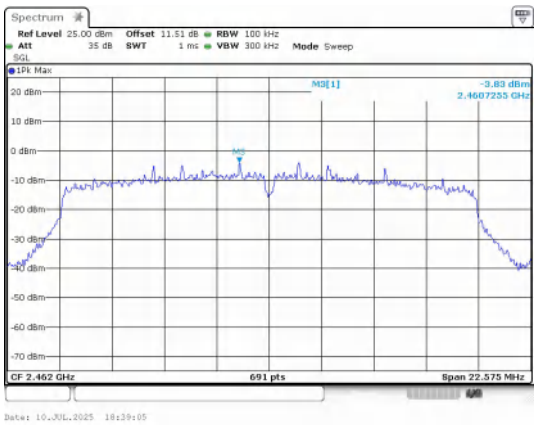
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



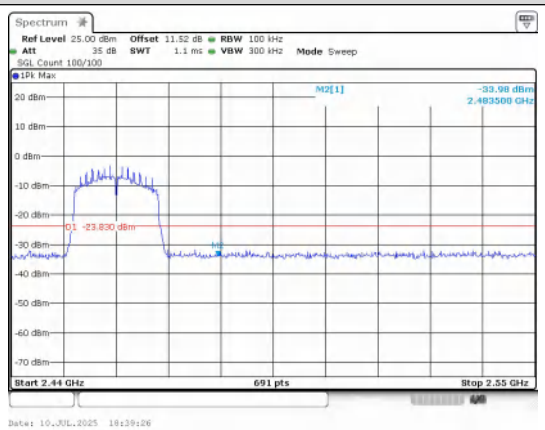
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



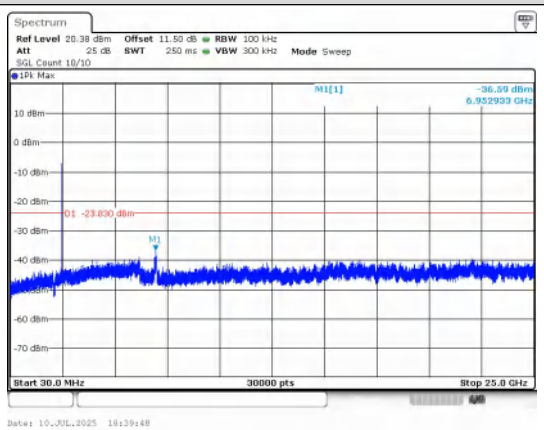
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



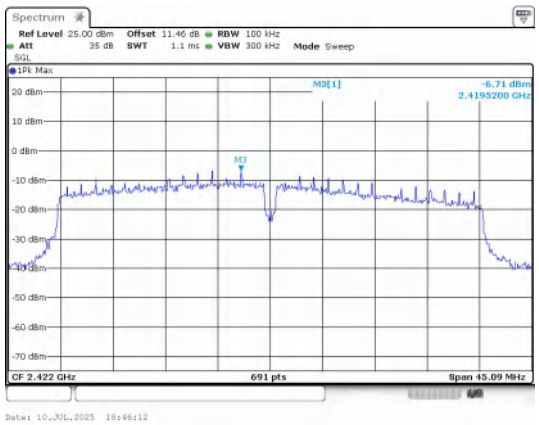
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



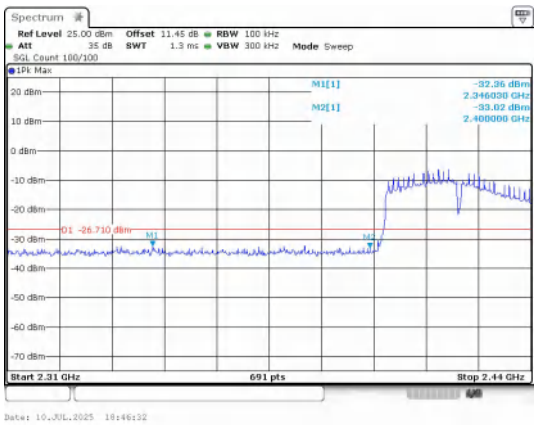
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



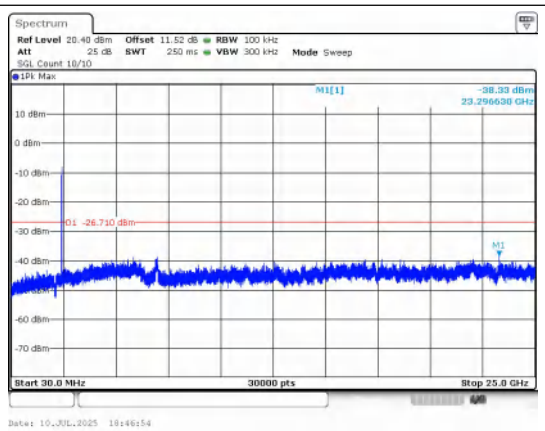
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



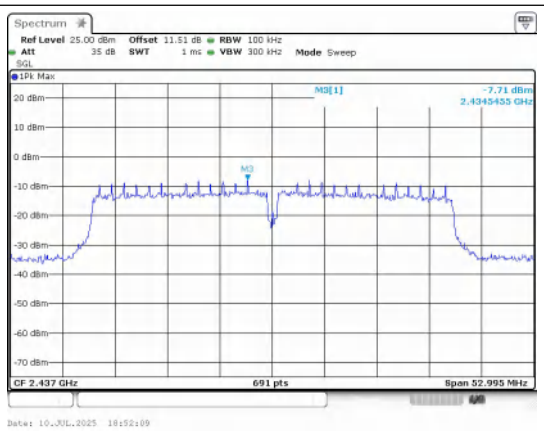
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



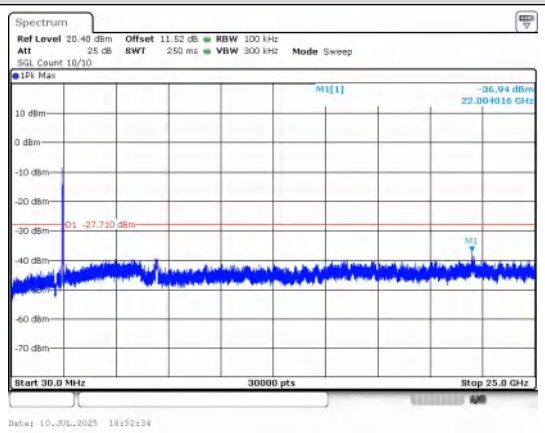
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



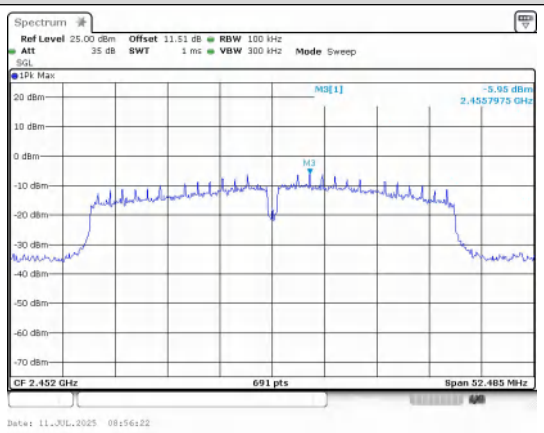
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



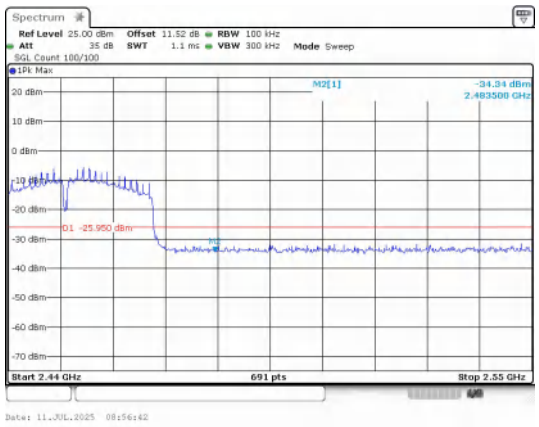
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



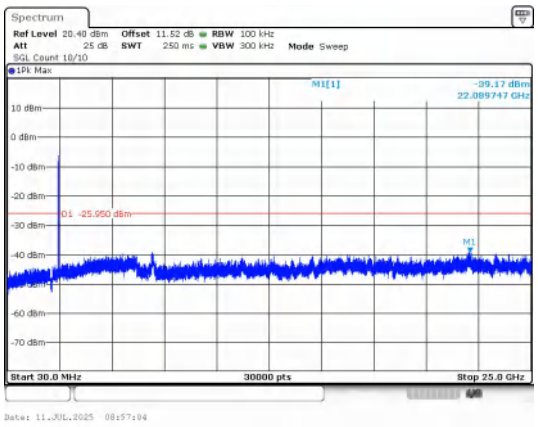
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



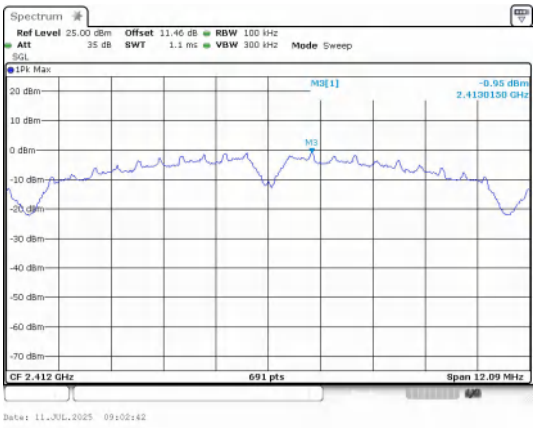
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Ant1：

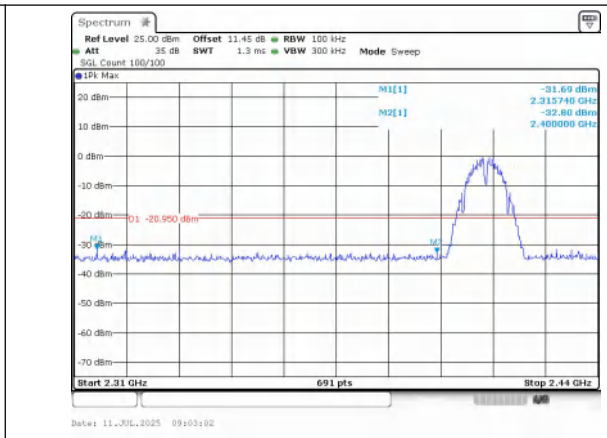
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2315.74	-31.692	-20.95	-10.742	PASS
			2400.00	-32.800	-20.95	-11.850	PASS
			6952.90	-38.766	-20.95	-17.816	PASS
	6		6183.86	-38.992	-21.36	-17.632	PASS
	11		2483.50	-34.200	-20.64	-13.560	PASS
			6910.48	-39.396	-20.64	-18.756	PASS
IEEE 802.11g	1		2347.34	-32.067	-24.66	-7.407	PASS
			2400.00	-34.410	-24.66	-9.750	PASS
			6938.00	-38.567	-24.66	-13.907	PASS
	6		5804.31	-38.990	-25.47	-13.520	PASS
	11		2483.50	-32.190	-24.18	-8.010	PASS
			6902.99	-37.934	-24.18	-13.754	PASS
IEEE 802.11n_20	1		2350.92	-32.174	-25.13	-7.044	PASS
			2400.00	-34.290	-25.13	-9.160	PASS
			22009.0	-38.796	-25.13	-13.666	PASS
	6		6981.23	-38.735	-25.75	-12.985	PASS
	11		2483.50	-33.120	-24.24	-8.880	PASS
			6918.81	-37.965	-24.24	-13.725	PASS
IEEE 802.11n_40	3		2393.44	-31.641	-27.77	-3.871	PASS
			2400.00	-34.350	-27.77	-6.580	PASS
			6977.10	-38.588	-27.77	-10.818	PASS
	6		6988.72	-38.540	-28.49	-10.050	PASS
	9		2483.50	-33.860	-26.49	-7.370	PASS
			6898.83	-38.276	-26.49	-11.786	PASS

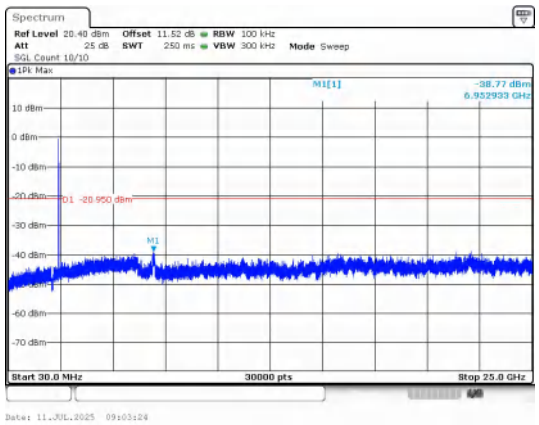
Test Graphs



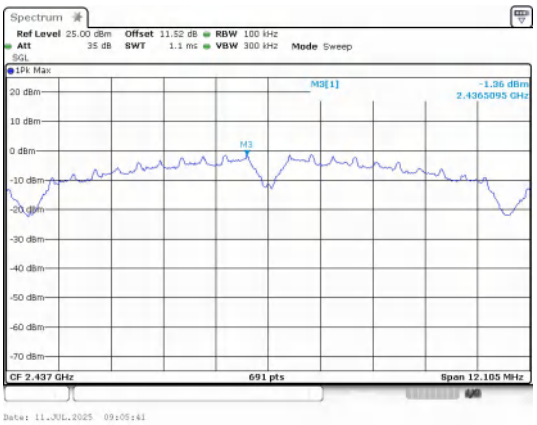
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



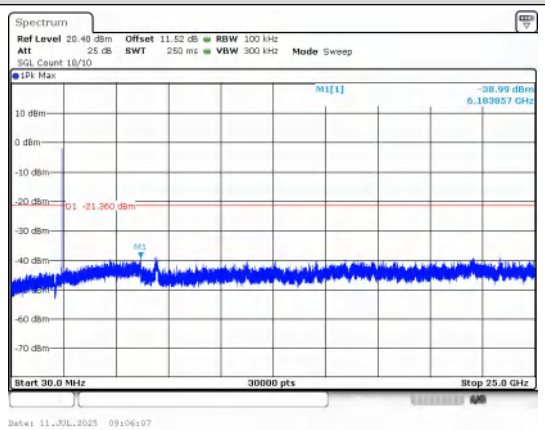
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



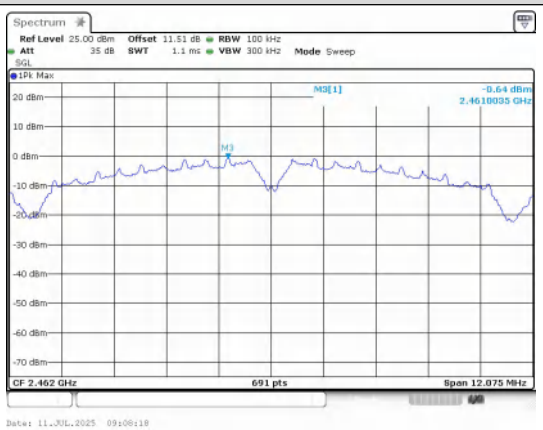
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



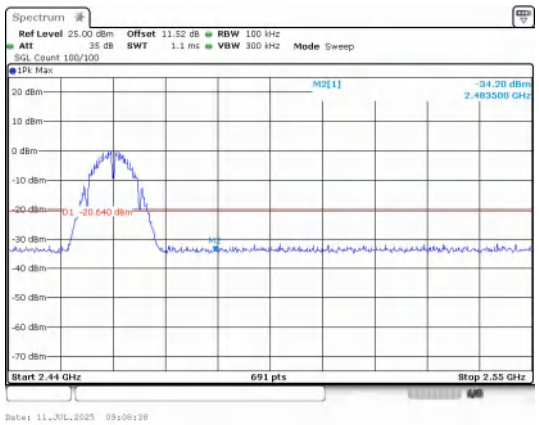
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



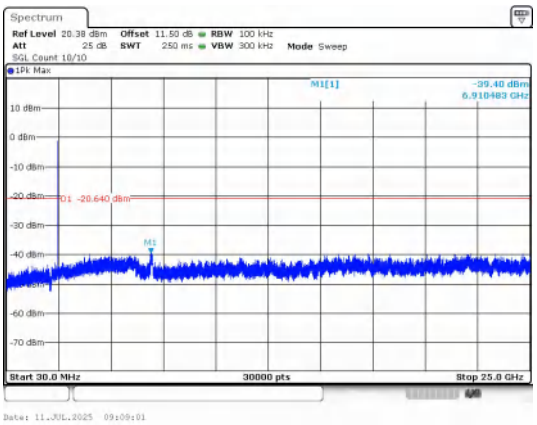
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



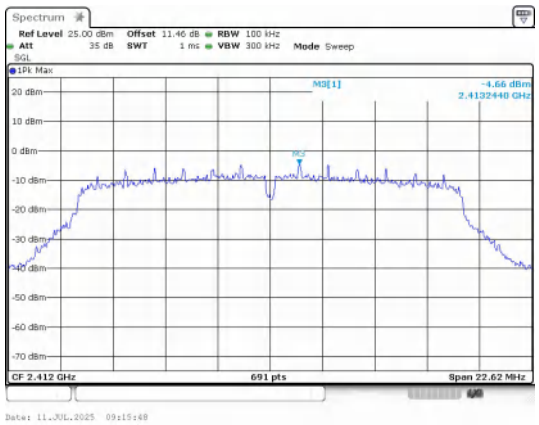
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



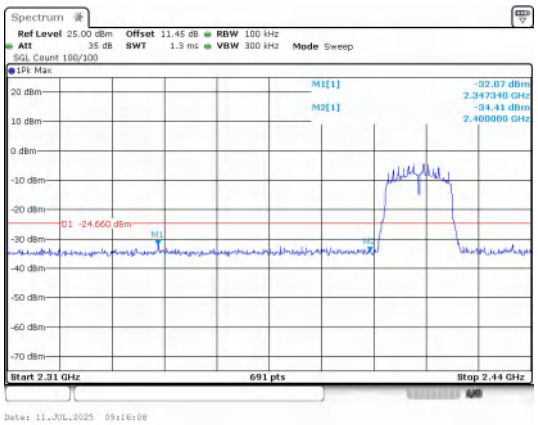
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



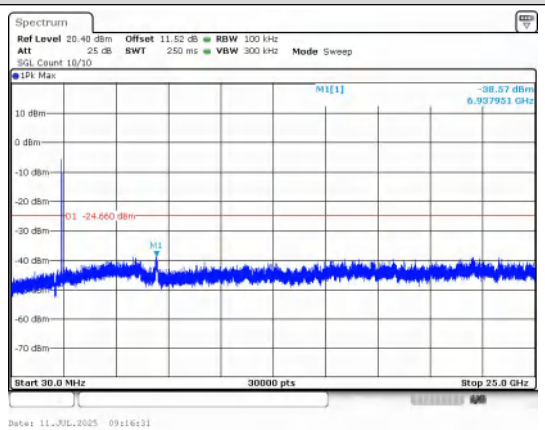
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



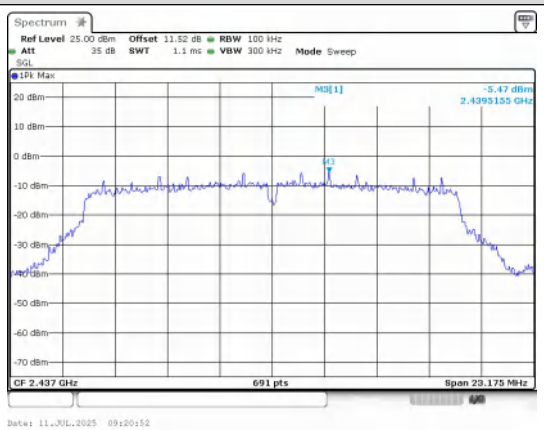
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



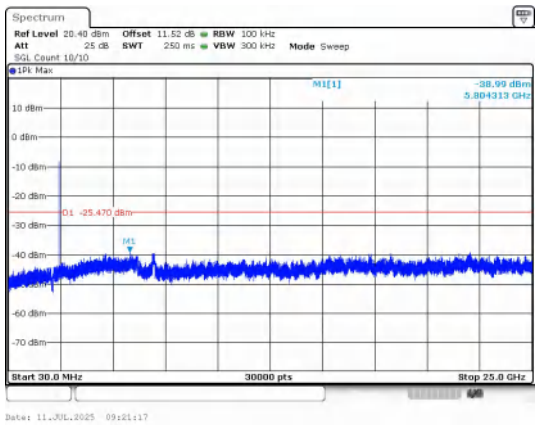
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



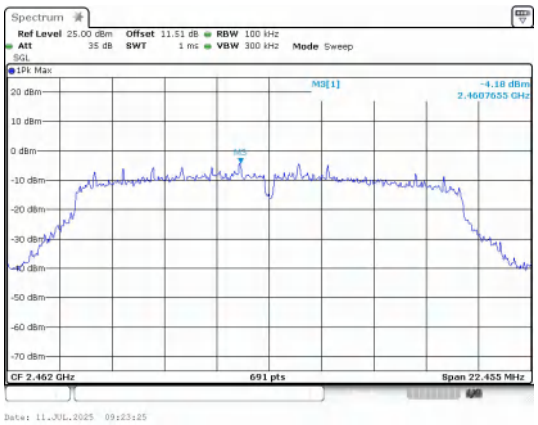
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



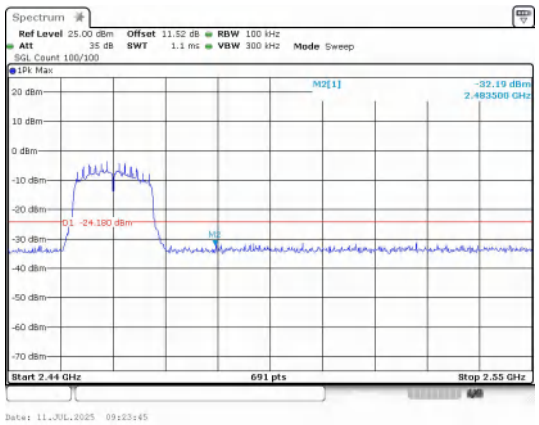
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



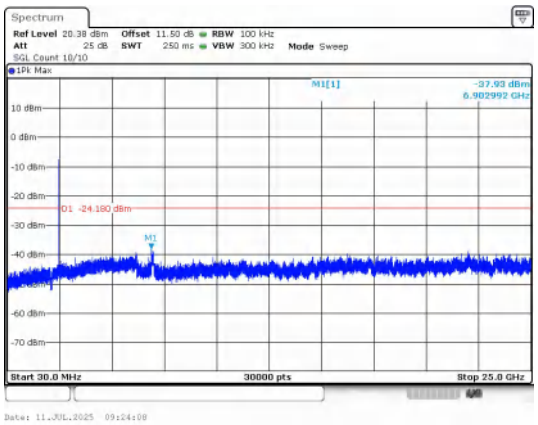
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



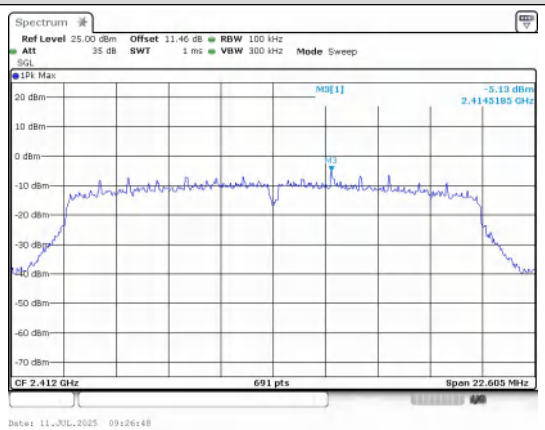
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



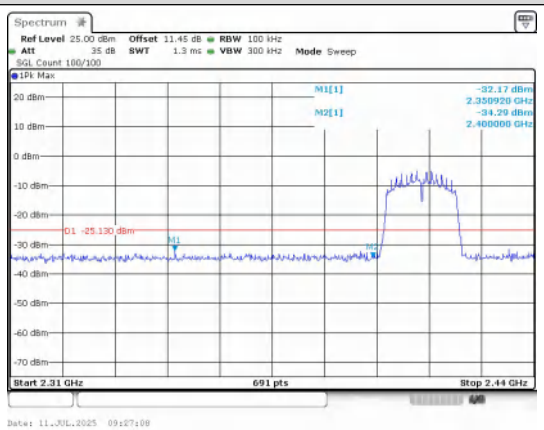
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



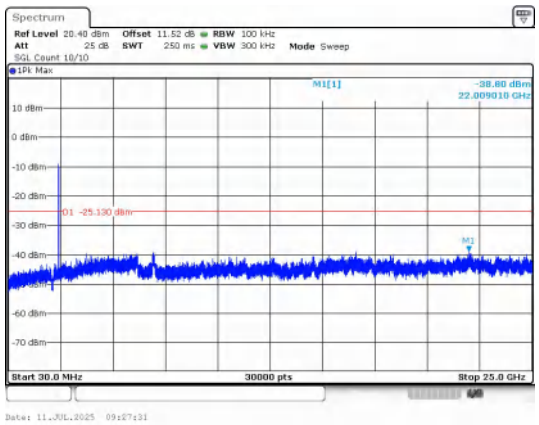
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



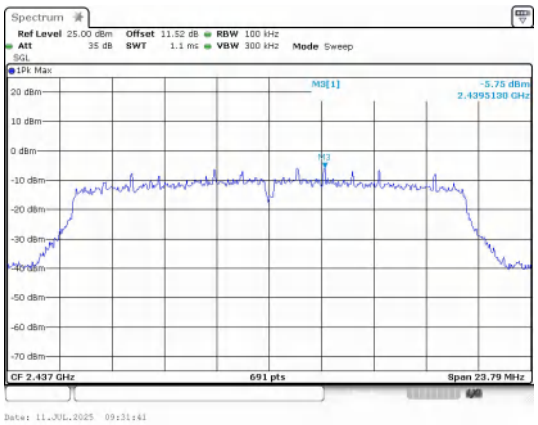
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



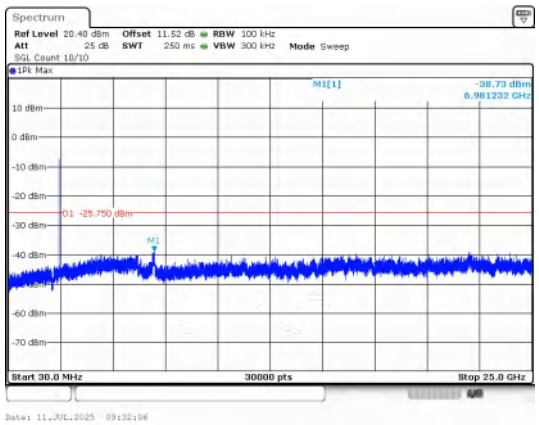
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



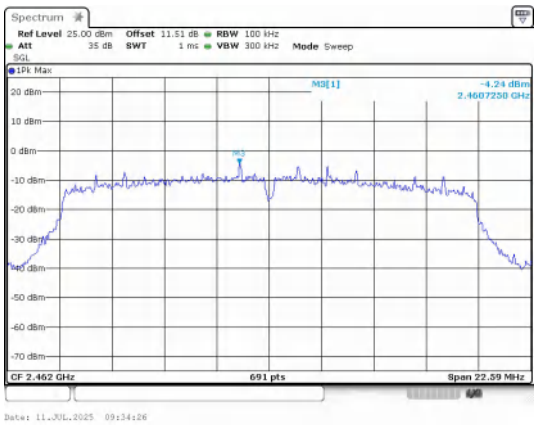
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



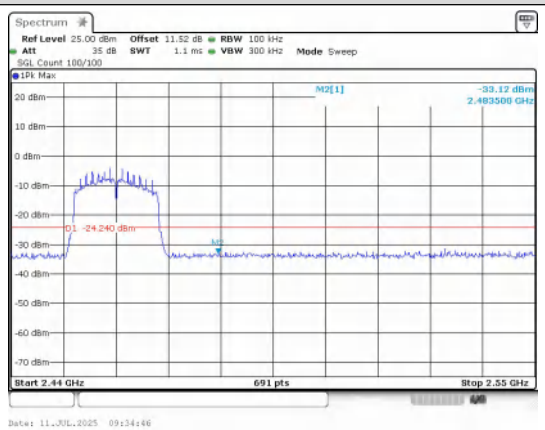
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



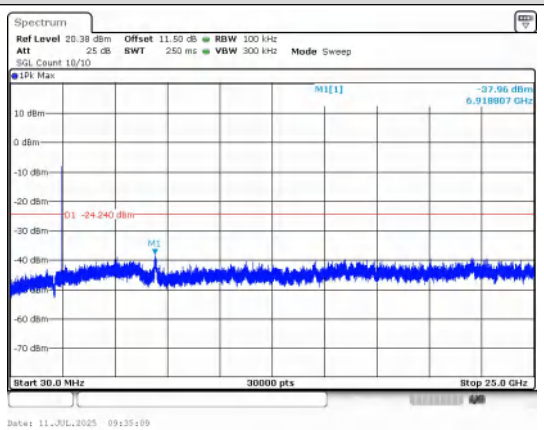
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



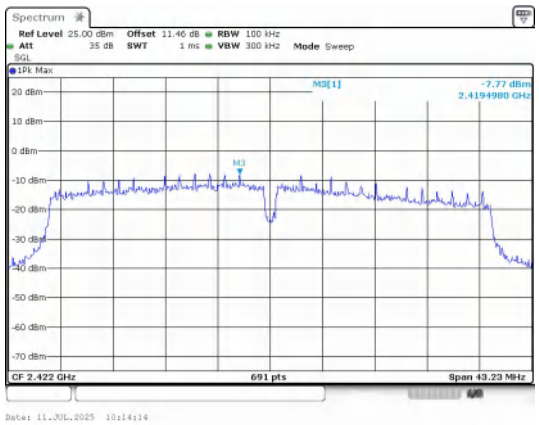
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



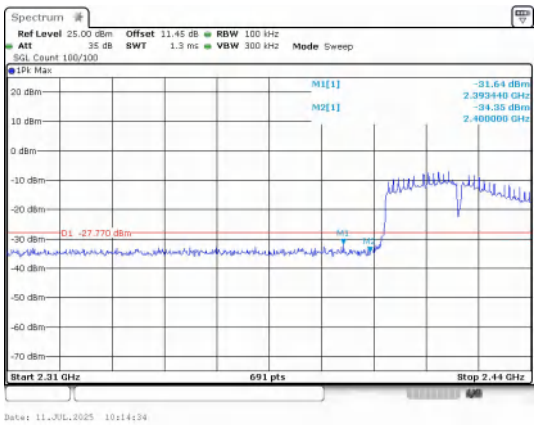
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



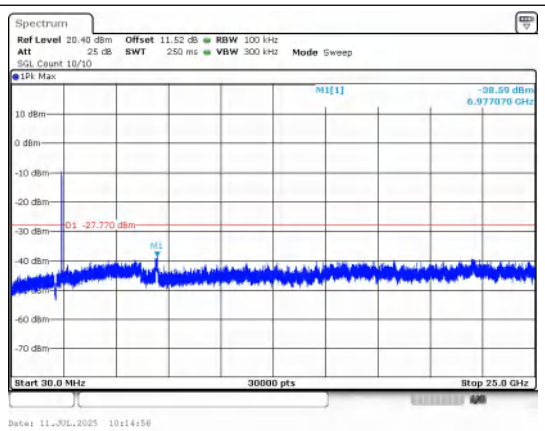
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



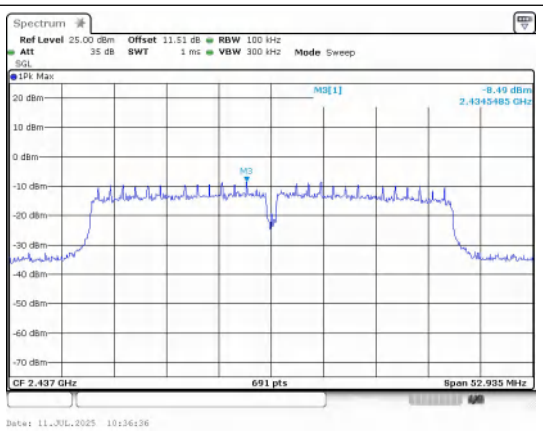
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



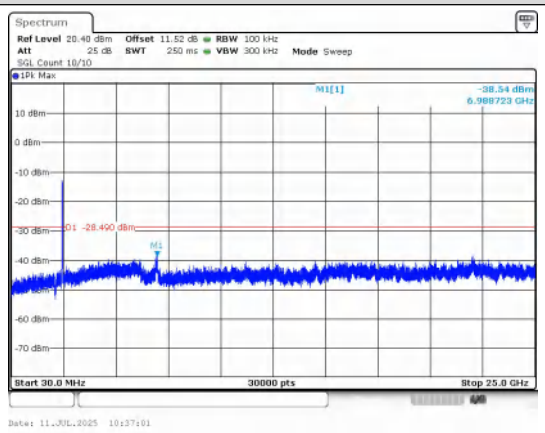
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



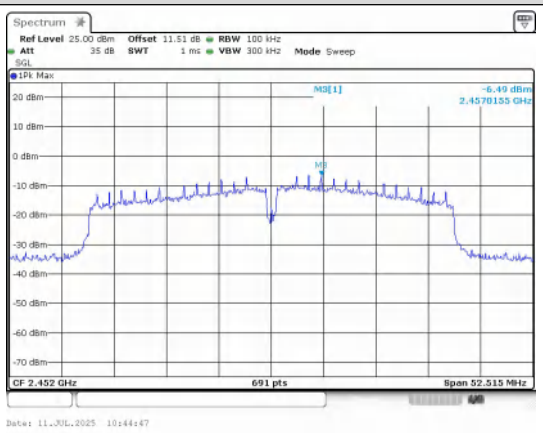
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



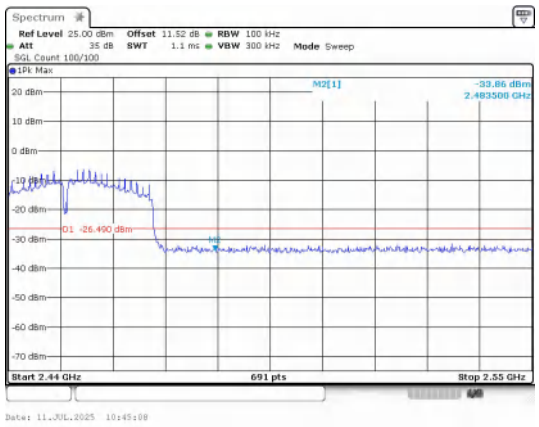
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



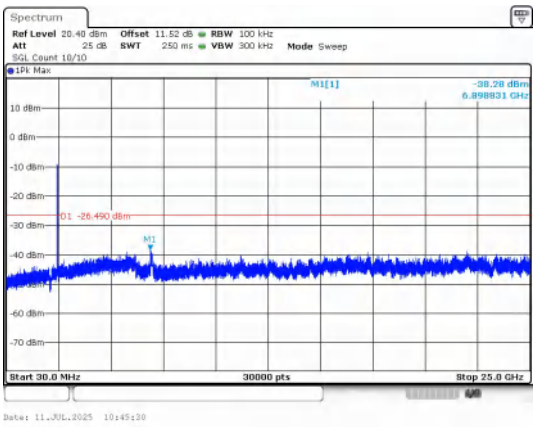
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 9_40MHz_Antenna 0

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