

TEST REPORT

Reference No...... : WTX25X10275169W001
FCC ID..... : 2BDXN-BASE
Applicant..... : Shenzhen AYN Technologies Co.,Ltd
Address..... : 410,Building A,Jiazhaoye Xingdong Science and Technology Innovation
Park,Zone 71,Xingdong Community,Bao'an,Shenzhen,China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : AYN Thor
Model No...... : Base
Standards..... : FCC Part 15.247
Date of Receipt sample..... : 2025-10-20
Date of Test..... : 2025-11-03 to 2025-12-19
Date of Issue..... : 2025-12-19
Test Report Form No...... : WTX_Part 15_247W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Report version

Version No.	Date of issue	Description
Rev.00	2025-12-19	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	AYN Thor
Trade Name:	/
Model No.:	Base
Adding Model(s):	Lite, Pro, Max
Rated Voltage:	Type-C 9V3A Battery DC3.85V
Battery Capacity:	6000mAh
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model Base, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	Antenna 0: 16.73dBm (Conducted) Antenna 1: 16.53dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	FPC Antenna
Antenna Gain:	Antenna 0:2.12dBi Antenna 1:3.74dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

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

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz
Note: The 2.4GHz WIFI has two antennas and support Multiple Outputs for 802.11n mode for this report; Antenna 0 Gain is 2.12dBi; Antenna 1 Gain is 3.74dBi; For this function is belong to Correlated Categorization equipment According to KDB 662911, $\text{Directional gain} = 10 \log[(10G_1 / 20 + 10G_2 / 20 + \dots + 10G_N / 20)^2 / NANT] \text{ dBi} = 5.98\text{dBi}$		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1012 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
TYPE-C Cable	1	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	iottie	CHCRIO160	E488794

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	0.57dB
Occupied Bandwidth	Conducted	0.015MHz
Power Spectral Density	Conducted	1.8dB
Conducted Spurious Emission	Conducted	2.17dB
Conducted Emissions	Conducted	9-150kHz, 3.74dB
		0.15-30MHz, 3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2025-02-23	2026-02-22
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2025-02-23	2026-02-22
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007A 1002	Amplifier	HP	8447F	2805A034 75	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2025-02-23	2026-02-22
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22

WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2025-02-23	2026-02-22
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1007A 1003	Amplifier	HP	8447F	2944A038 69	2025-02-23	2026-02-22
WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A	EMI Test	Rohde &	ESIB 26	100401	2025-02-23	2026-02-22

1001	Receiver	Schwarz				
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2024-12-08	2025-12-07
					2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC 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.

3.2 Evaluation Information

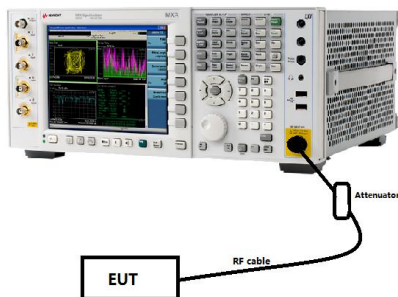
This product has two FPC antennas, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

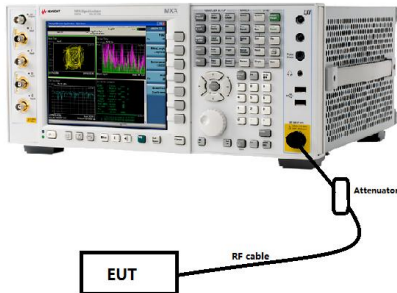
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

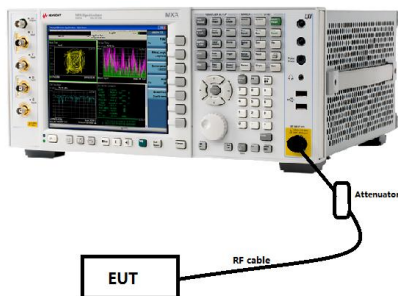
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2020 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- Set span to at least 1.5 times the OBW.
- Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- Set VBW $\geq 3 \times$ RBW.
- Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

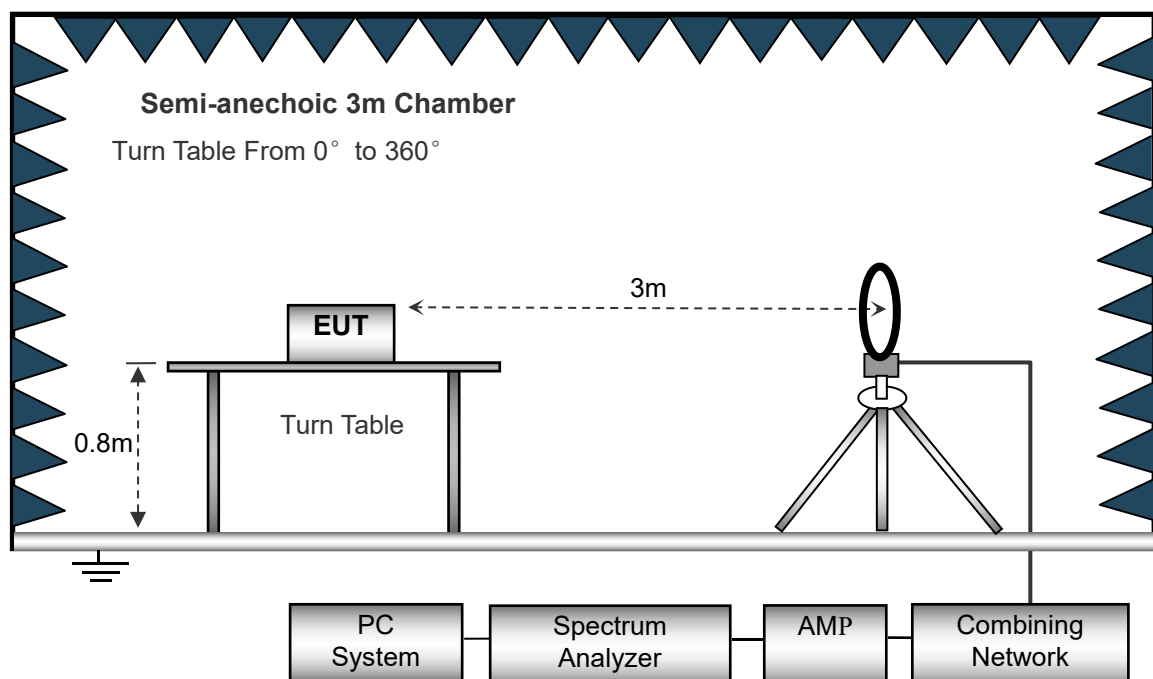
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

7.2 Test Procedure

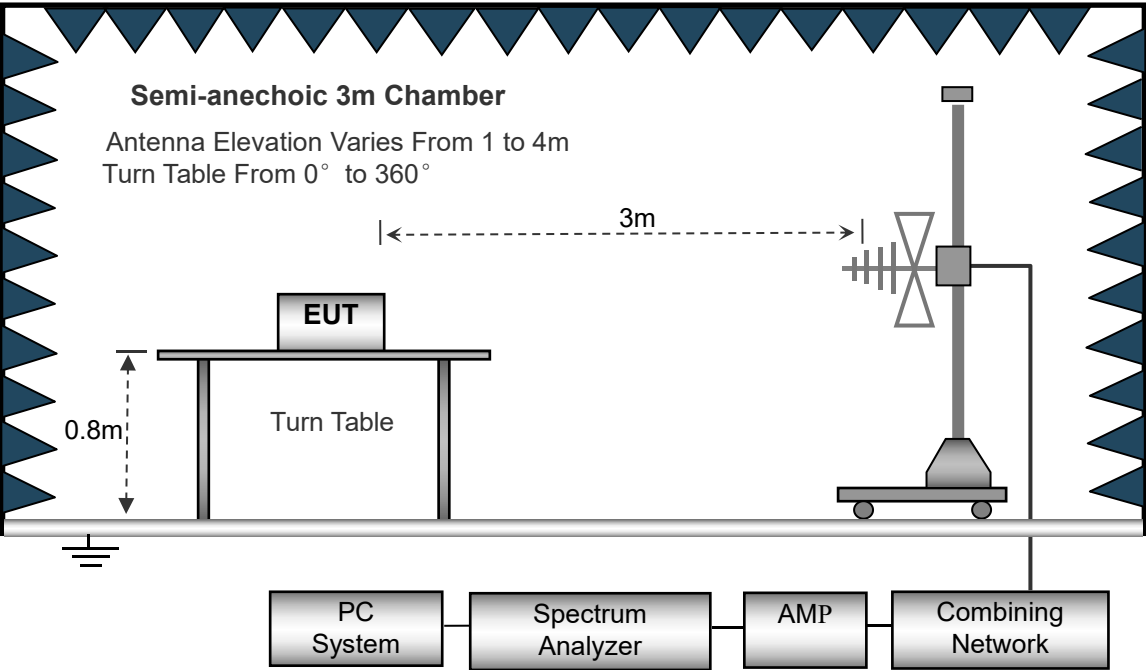
The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

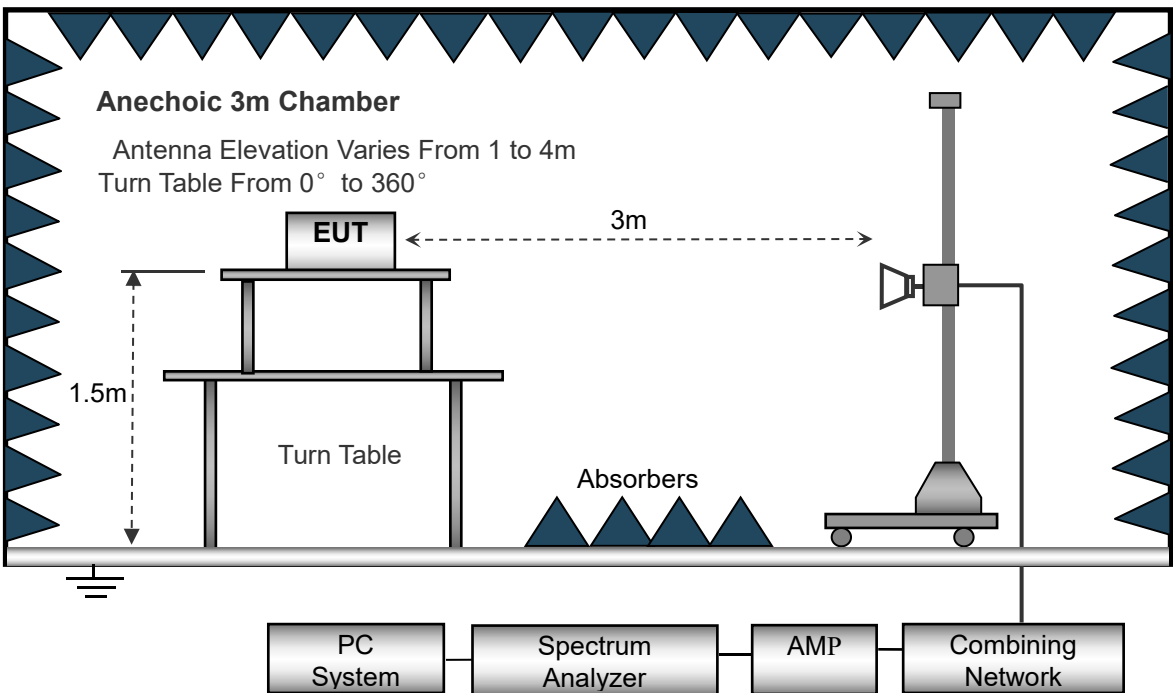
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10kHz,	RBW=120kHz,	RBW=1MHz,
VBW =30kHz	VBW=300kHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

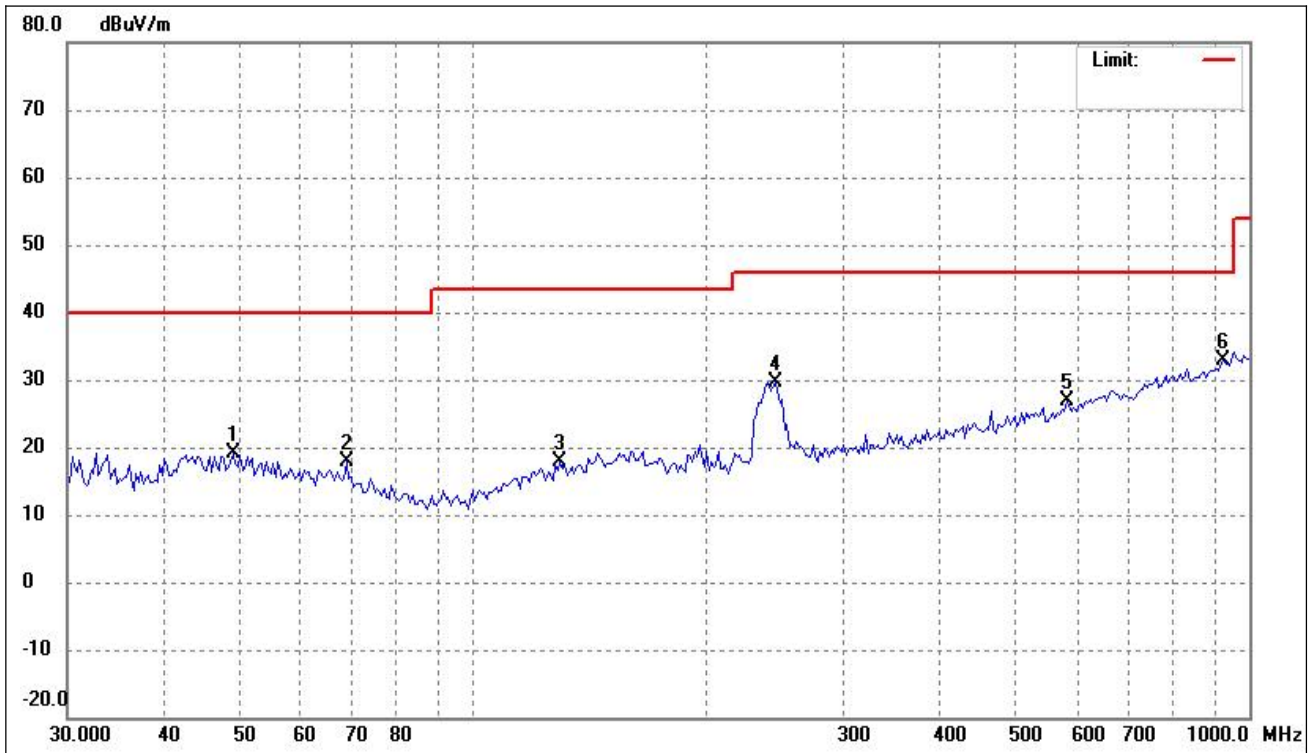
All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

➤ Spurious Emissions Below 1GHz

Antenna 0

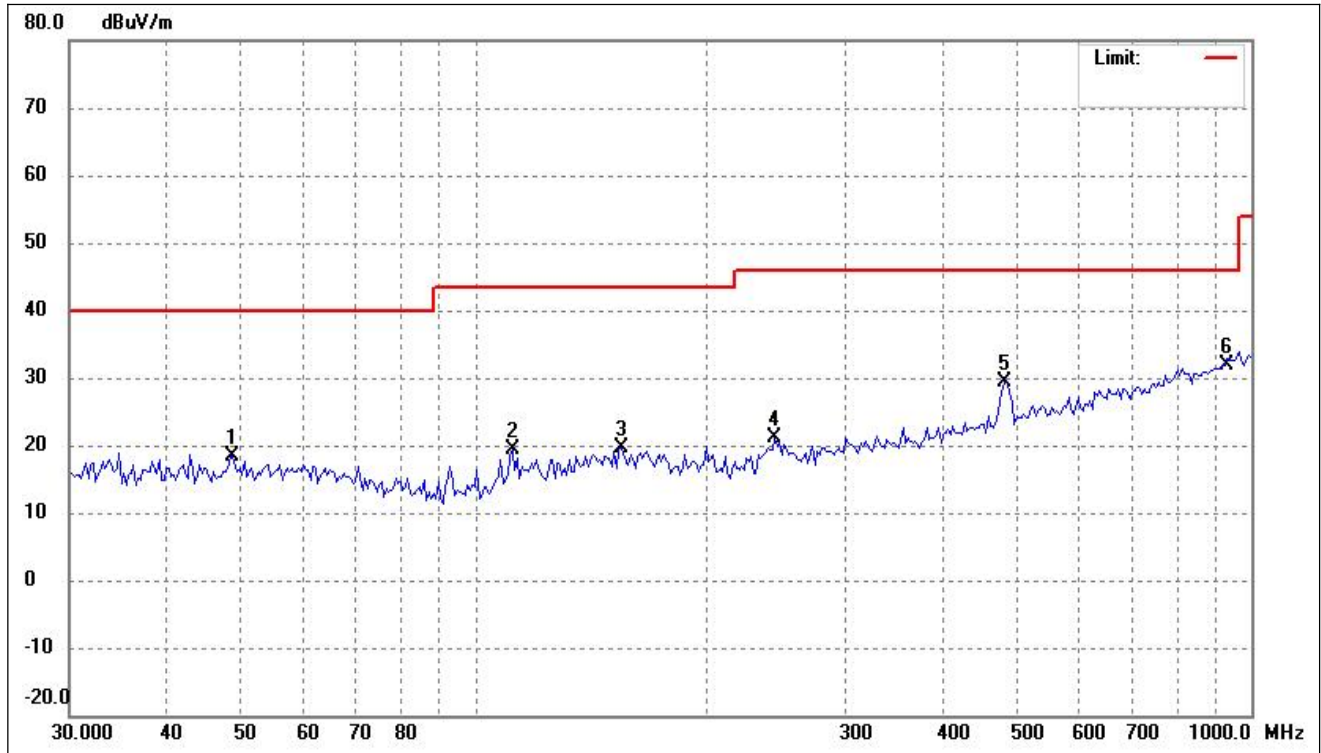
802.11b_11Mbps

Test Channel	Low(worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	49.0627	28.06	-9.00	19.06	40.00	-20.94	-	-	peak
2	68.7450	28.85	-10.91	17.94	40.00	-22.06	-	-	peak
3	129.3923	27.89	-10.12	17.77	43.50	-25.73	-	-	peak
4	245.2606	39.44	-9.77	29.67	46.00	-16.33	-	-	peak
5	582.1122	29.58	-2.62	26.96	46.00	-19.04	-	-	peak
6	925.6132	30.45	2.46	32.91	46.00	-13.09	-	-	peak

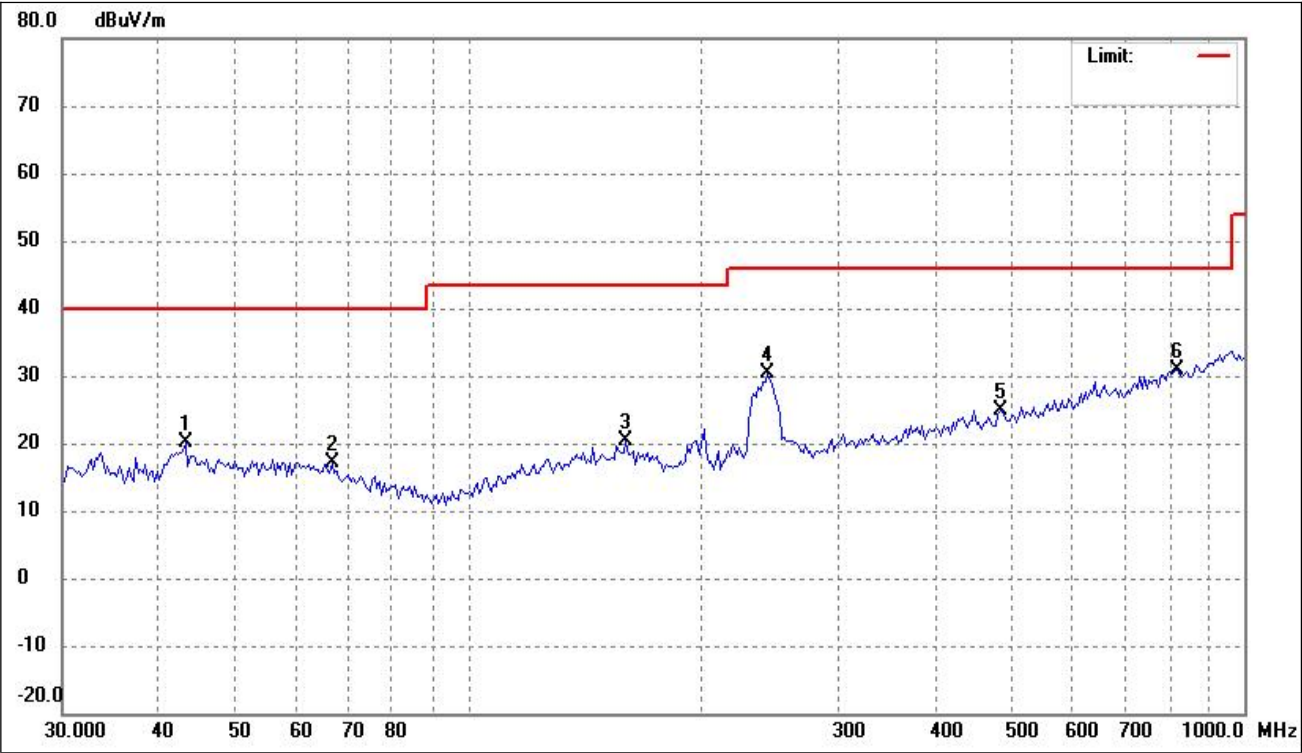
802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	48.7191	27.52	-9.02	18.50	40.00	-21.50	-	-	peak
2	111.6399	31.21	-11.76	19.45	43.50	-24.05	-	-	peak
3	154.2428	28.38	-8.68	19.70	43.50	-23.80	-	-	peak
4	243.5431	30.99	-9.83	21.16	46.00	-24.84	-	-	peak
5	481.5112	34.12	-4.72	29.40	46.00	-16.60	-	-	peak
6	925.6132	29.44	2.46	31.90	46.00	-14.10	-	-	peak

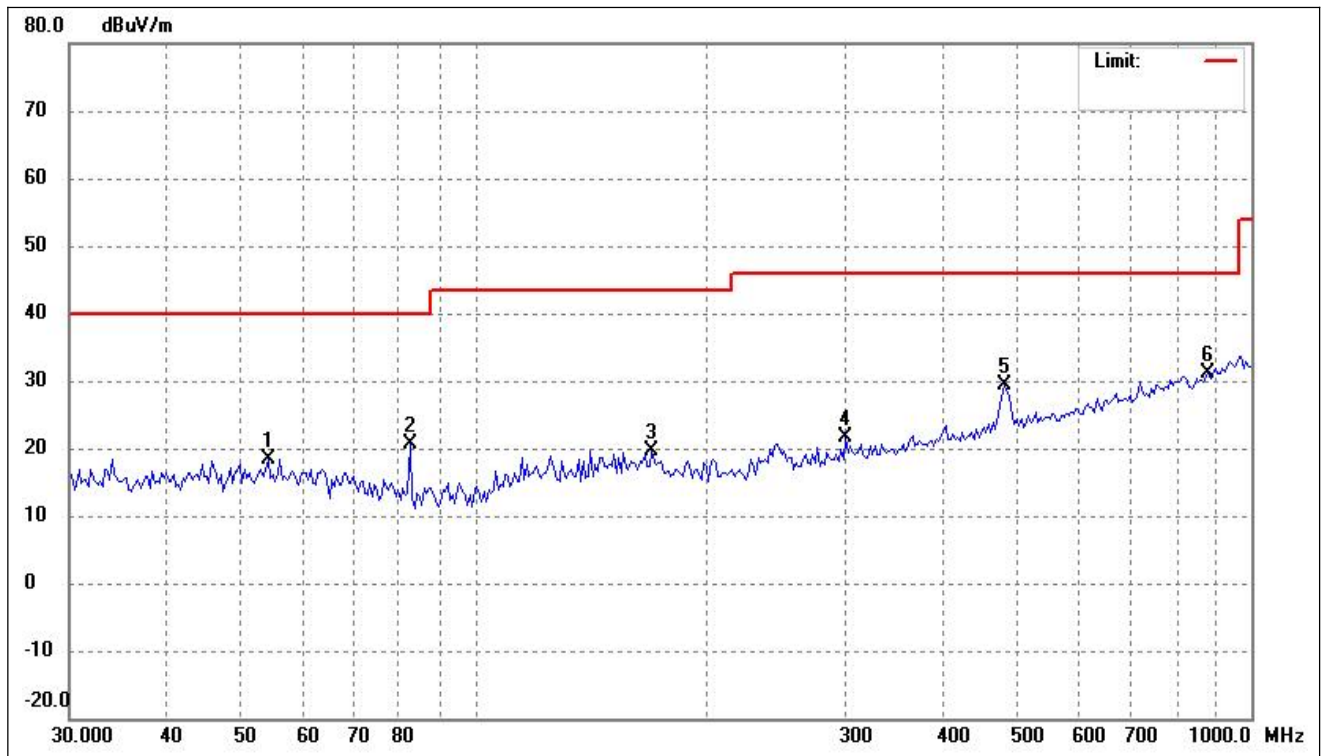
➤ Antenna 1

802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	43.2333	29.35	-9.23	20.12	40.00	-19.88	-	-	peak
2	66.8395	27.74	-10.51	17.23	40.00	-22.77	-	-	peak
3	159.7586	28.82	-8.53	20.29	43.50	-23.21	-	-	peak
4	243.5431	40.21	-9.83	30.38	46.00	-15.62	-	-	peak
5	484.9068	29.59	-4.66	24.93	46.00	-21.07	-	-	peak
6	821.3871	29.99	0.98	30.97	46.00	-15.03	-	-	peak

802.11b_11Mbps			
Test Channel	Low(worst case)	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	54.1349	27.56	-9.14	18.42	40.00	-21.58	-	-	peak
2	82.5257	34.19	-13.53	20.66	40.00	-19.34	-	-	peak
3	168.9970	28.50	-8.80	19.70	43.50	-23.80	-	-	peak
4	300.6988	29.34	-7.73	21.61	46.00	-24.39	-	-	peak
5	481.5112	34.11	-4.72	29.39	46.00	-16.61	-	-	peak
6	881.1838	29.57	1.58	31.15	46.00	-14.85	-	-	peak

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b_11Mbps
- Antenna 0

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	54.76	-13.21	41.55	74.00	-32.45	H	PK
7236.000	54.30	-6.94	47.36	74.00	-26.64	H	PK
4824.000	54.75	-13.21	41.54	74.00	-32.46	V	PK
7236.000	54.15	-6.94	47.21	74.00	-26.79	V	PK
Middle Channel-2437MHz							
4874.000	54.74	-13.15	41.59	74.00	-32.41	H	PK
7311.000	53.39	-7.15	46.24	74.00	-27.76	H	PK
4874.000	54.98	-13.15	41.83	74.00	-32.17	V	PK
7311.000	53.58	-7.15	46.43	74.00	-27.57	V	PK
High Channel-2462MHz							
4924.000	55.79	-13.09	42.70	74.00	-31.30	H	PK
7386.000	54.96	-7.37	47.59	74.00	-26.41	H	PK
4924.000	54.72	-13.09	41.63	74.00	-32.37	V	PK
7386.000	54.13	-7.37	46.76	74.00	-27.24	V	PK

- Antenna 1

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	54.85	-13.21	41.64	74.00	-32.36	H	PK
7236.000	54.64	-6.94	47.70	74.00	-26.30	H	PK
4824.000	55.67	-13.21	42.46	74.00	-31.54	V	PK
7236.000	55.23	-6.94	48.29	74.00	-25.71	V	PK
Middle Channel-2437MHz							
4874.000	55.48	-13.15	42.33	74.00	-31.67	H	PK
7311.000	53.61	-7.15	46.46	74.00	-27.54	H	PK
4874.000	55.07	-13.15	41.92	74.00	-32.08	V	PK
7311.000	53.94	-7.15	46.79	74.00	-27.21	V	PK
High Channel-2462MHz							
4924.000	55.26	-13.09	42.17	74.00	-31.83	H	PK
7386.000	54.57	-7.37	47.20	74.00	-26.80	H	PK
4924.000	55.94	-13.09	42.85	74.00	-31.15	V	PK
7386.000	55.01	-7.37	47.64	74.00	-26.36	V	PK

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission

must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

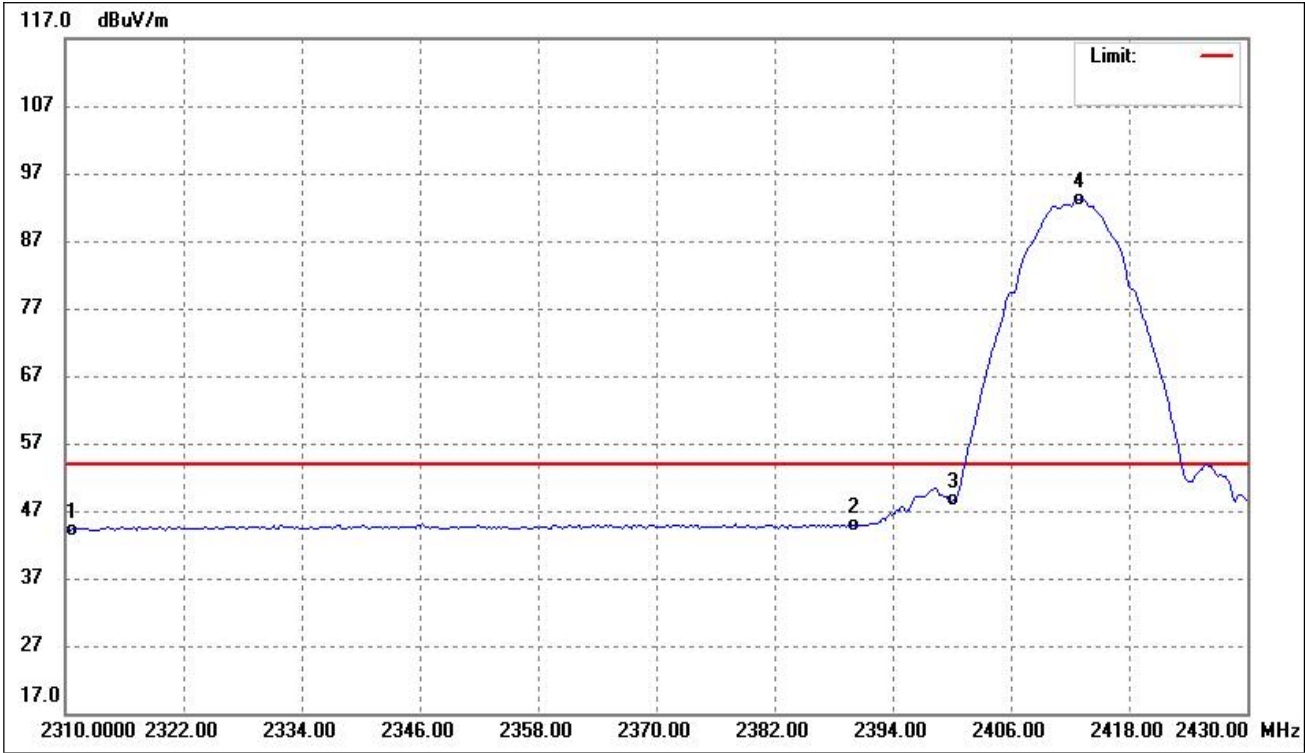
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

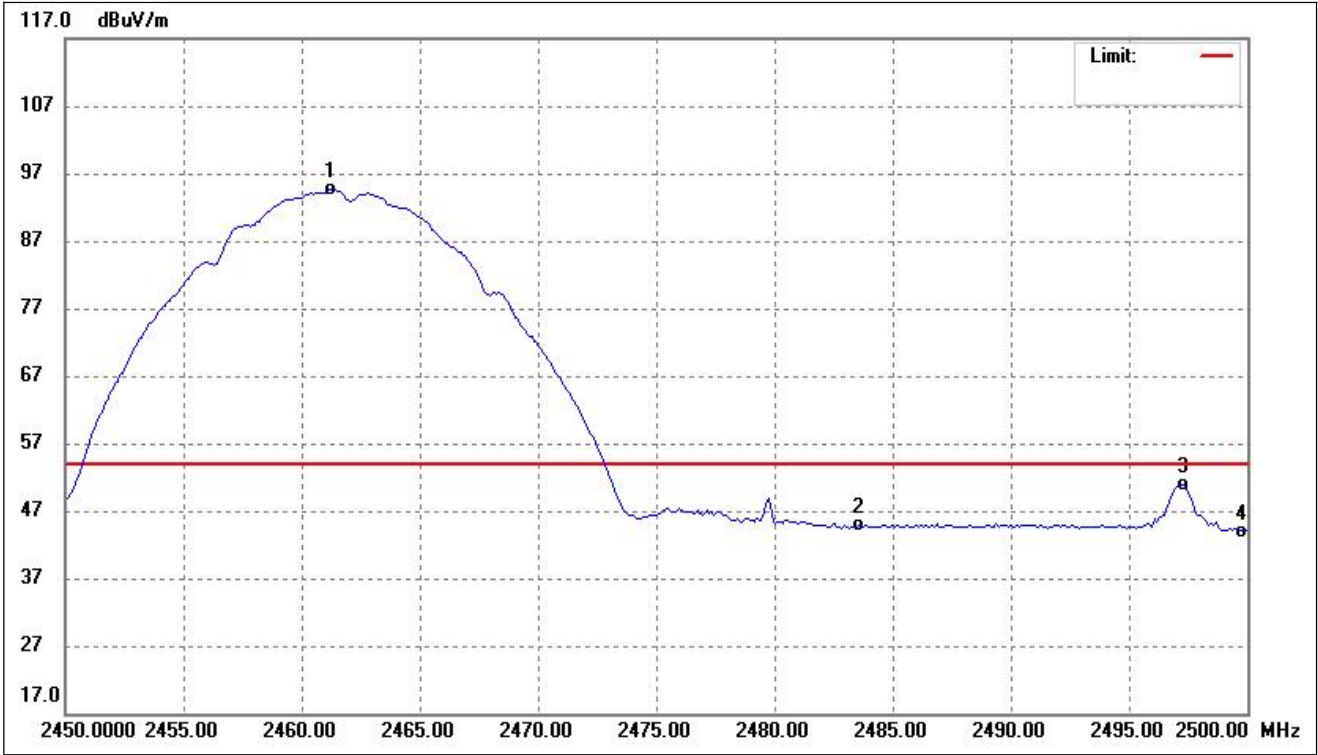
- Radiated test
- Antenna 0

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.67	0.50	44.17	54.00	-9.83	Average Detector
	2310.000	56.54	0.50	57.04	74.00	-16.96	Peak Detector
2	2390.000	44.09	0.69	44.78	54.00	-9.22	Average Detector
	2390.000	56.72	0.69	57.41	74.00	-16.59	Peak Detector
3	2400.000	47.92	0.71	48.63	Delta=44.58dBc		Average Detector
4	2412.926	92.46	0.75	93.21			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



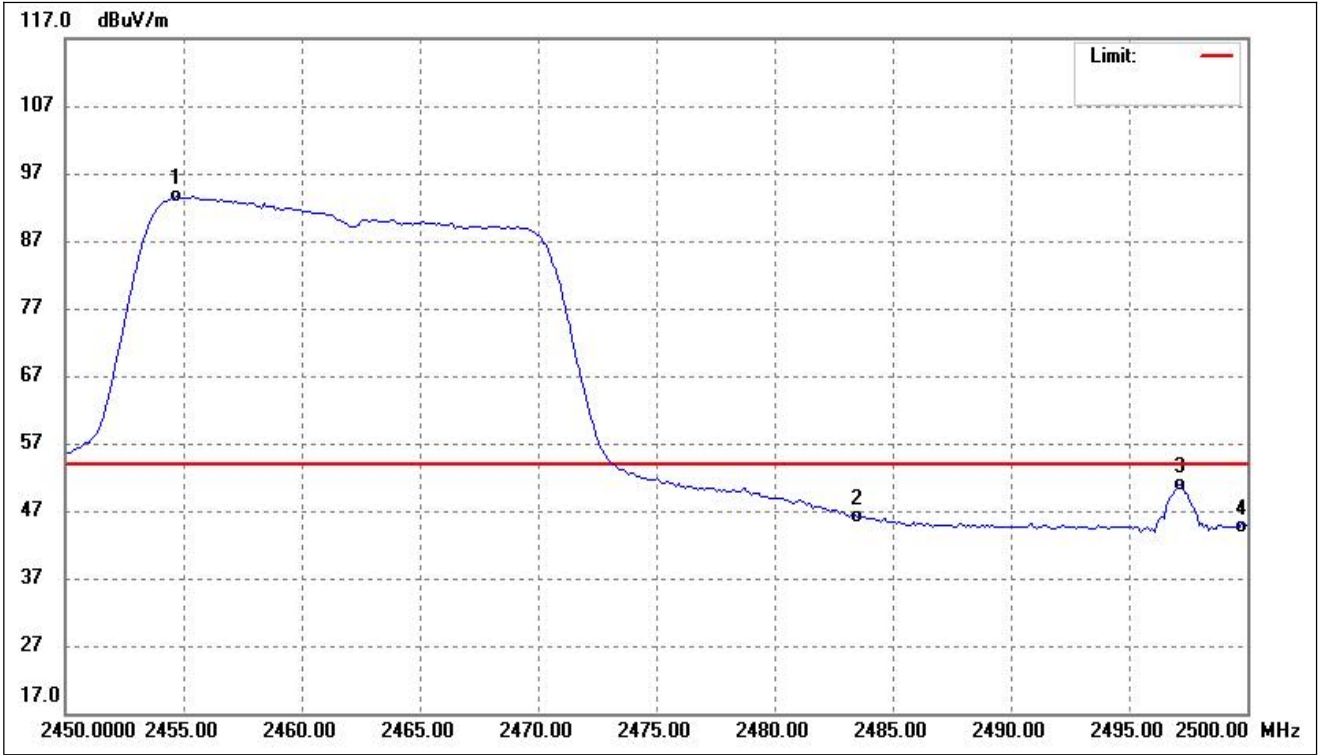
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.222	93.71	0.85	94.56	/	/	Average Detector
	2461.122	102.38	0.85	103.23	/	/	Peak Detector
2	2483.500	43.94	0.91	44.85	54.00	-9.15	Average Detector
	2483.500	56.64	0.91	57.55	74.00	-16.45	Peak Detector
3	2497.295	49.89	0.94	50.83	54.00	-3.17	Average Detector
4	2500.000	42.95	0.95	43.90	54.00	-10.10	Average Detector
	2500.000	55.22	0.95	56.17	74.00	-17.83	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.96	0.50	44.46	54.00	-9.54	Average Detector
	2310.000	56.18	0.50	56.68	74.00	-17.32	Peak Detector
2	2390.000	48.40	0.69	49.09	54.00	-4.91	Average Detector
	2390.000	63.51	0.69	64.20	74.00	-9.80	Peak Detector
3	2400.000	55.28	0.71	55.99	Delta=34.53dBc		Average Detector
4	2415.812	89.77	0.75	90.52			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.709	92.73	0.84	93.57	/	/	Average Detector
	2455.511	103.43	0.84	104.27	/	/	Peak Detector
2	2483.500	45.25	0.91	46.16	54.00	-7.84	Average Detector
	2483.500	60.05	0.91	60.96	74.00	-13.04	Peak Detector
3	2497.194	49.89	0.94	50.83	54.00	-3.17	Average Detector
4	2500.000	43.57	0.95	44.52	54.00	-9.48	Average Detector
	2500.000	55.62	0.95	56.57	74.00	-17.43	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Horizontal(worst case)



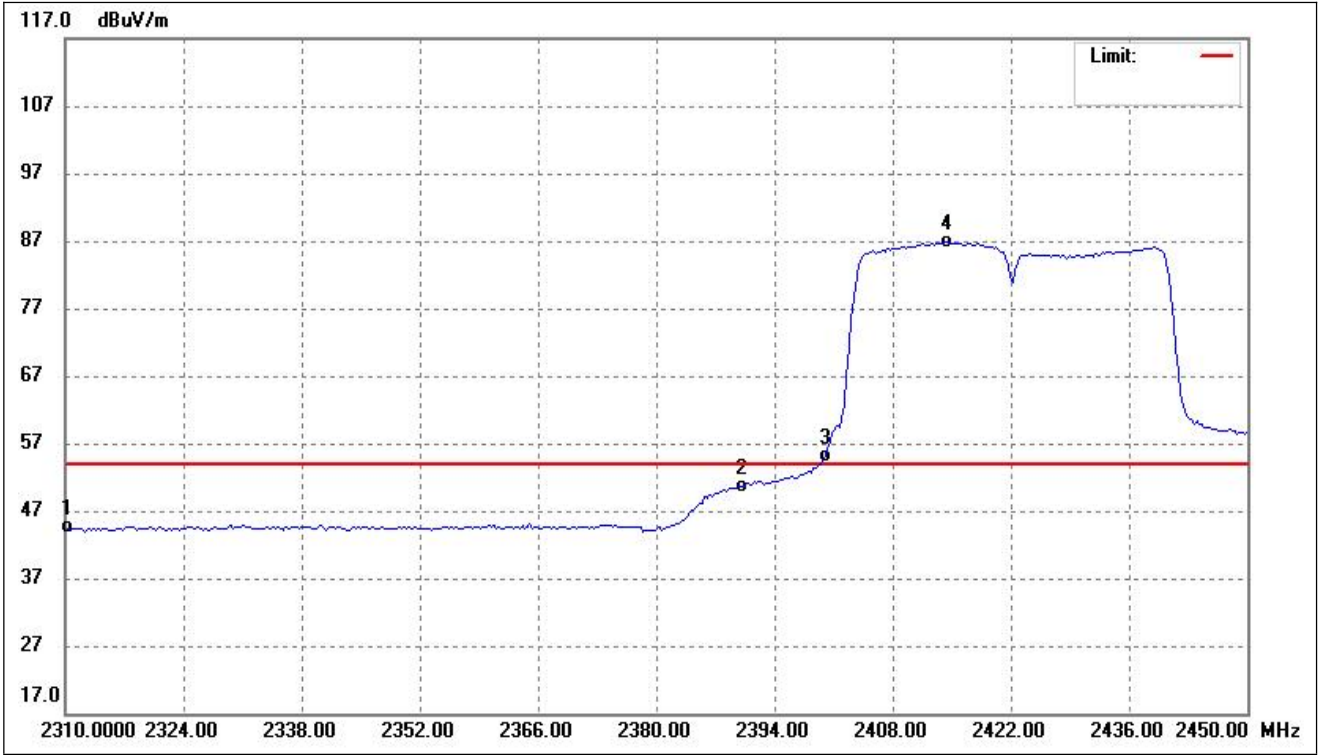
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.92	0.50	44.42	54.00	-9.58	Average Detector
	2310.000	55.56	0.50	56.06	74.00	-17.94	Peak Detector
2	2390.000	49.37	0.69	50.06	54.00	-3.94	Average Detector
	2390.000	65.88	0.69	66.57	74.00	-7.43	Peak Detector
3	2400.000	56.72	0.71	57.43	Delta=32.36dBc		Average Detector
4	2414.850	89.04	0.75	89.79			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



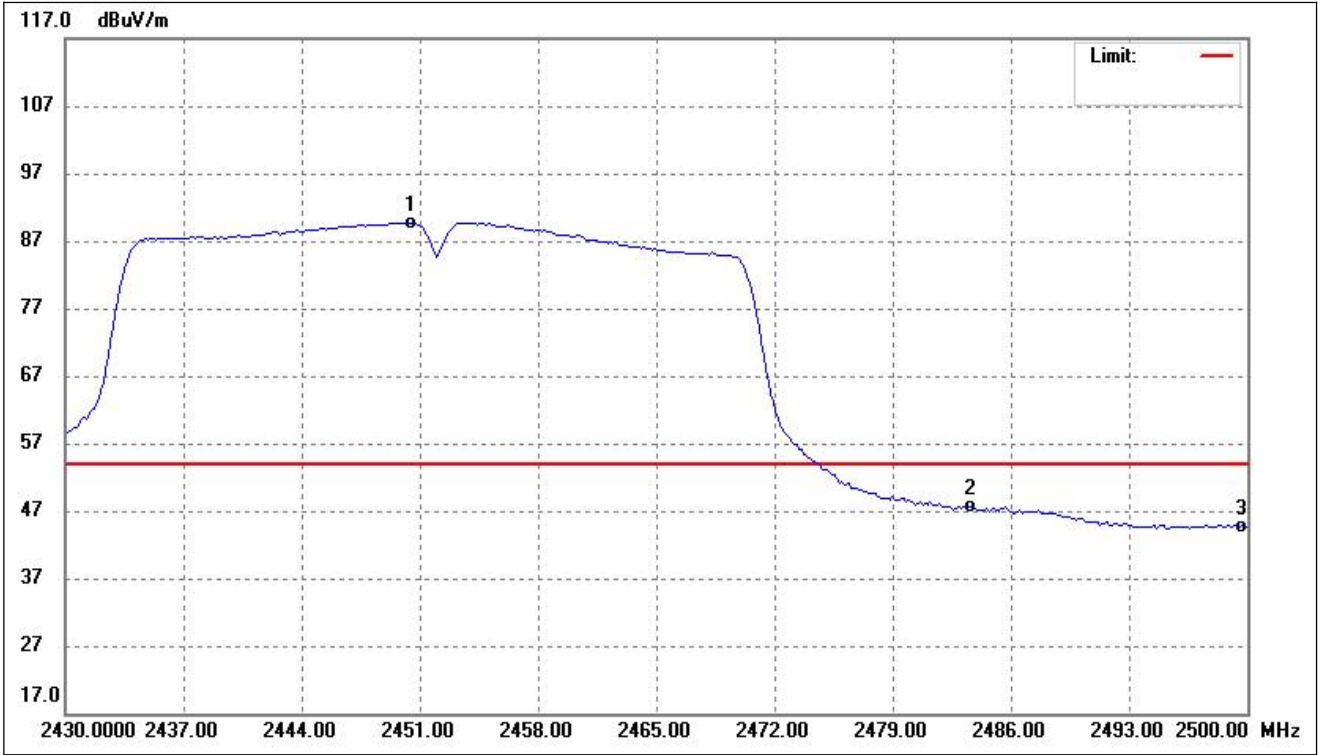
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.008	92.31	0.84	93.15	/	/	Average Detector
	2457.415	102.53	0.85	103.38	/	/	Peak Detector
2	2483.500	45.59	0.91	46.50	54.00	-7.50	Average Detector
	2483.500	58.08	0.91	58.99	74.00	-15.01	Peak Detector
3	2497.094	50.06	0.94	51.00	54.00	-3.00	Average Detector
4	2500.000	43.83	0.95	44.78	54.00	-9.22	Average Detector
	2500.000	55.46	0.95	56.41	74.00	-17.59	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	44.06	0.50	44.56	54.00	-9.44	Average Detector
	2310.000	55.51	0.50	56.01	74.00	-17.99	Peak Detector
2	2390.000	50.01	0.69	50.70	54.00	-3.30	Average Detector
	2390.000	63.37	0.69	64.06	74.00	-9.94	Peak Detector
3	2400.000	54.34	0.71	55.05	Delta=31.78dBc		Average Detector
4	2414.369	86.08	0.75	86.83			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2450.481	88.87	0.83	89.70	/	/	Average Detector
	2448.096	99.37	0.83	100.20	/	/	Peak Detector
2	2483.500	46.65	0.91	47.56	54.00	-6.44	Average Detector
	2483.500	58.55	0.91	59.46	74.00	-14.54	Peak Detector
3	2500.000	43.78	0.95	44.73	54.00	-9.27	Average Detector
	2500.000	56.68	0.95	57.63	74.00	-16.37	Peak Detector

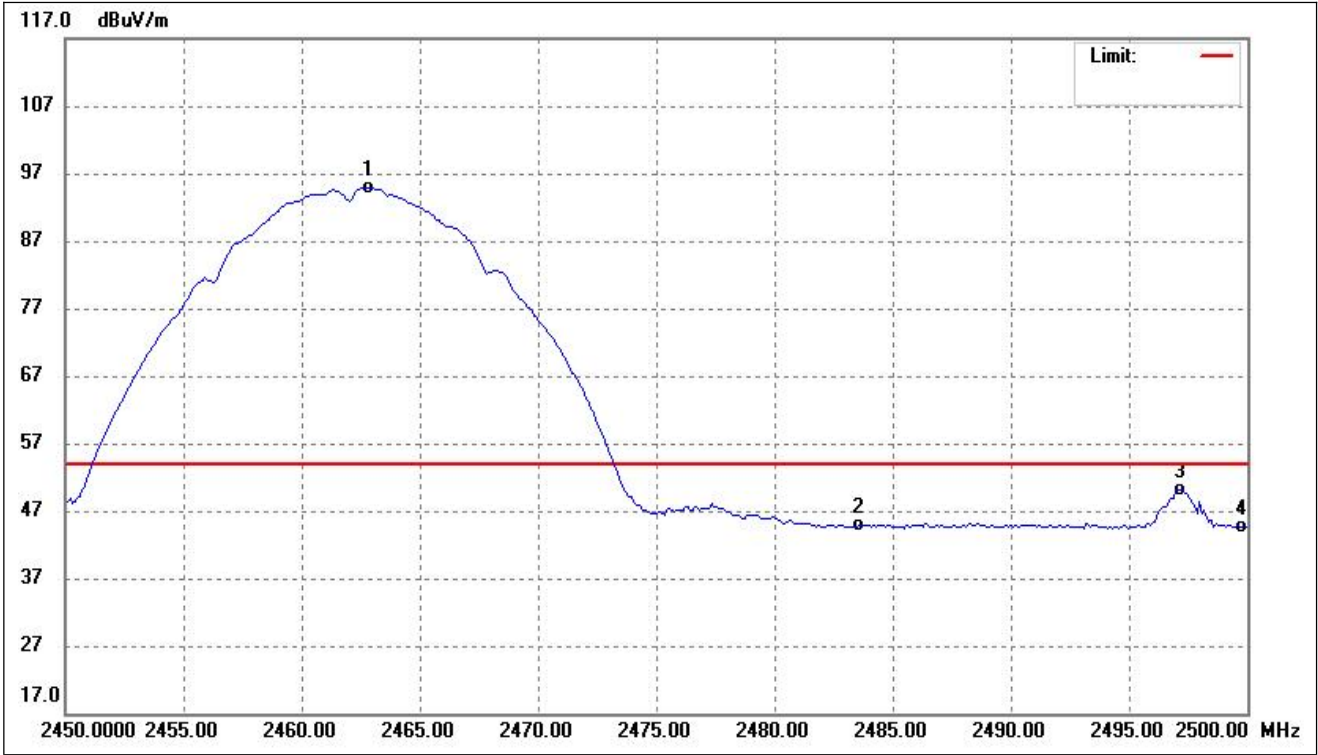
➤ Antenna 1

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.73	0.50	44.23	54.00	-9.77	Average Detector
	2310.000	55.61	0.50	56.11	74.00	-17.89	Peak Detector
2	2390.000	44.19	0.69	44.88	54.00	-9.12	Average Detector
	2390.000	56.11	0.69	56.80	74.00	-17.20	Peak Detector
3	2400.000	50.76	0.71	51.47	Delta=42.28dBc		Average Detector
4	2412.685	93.00	0.75	93.75			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



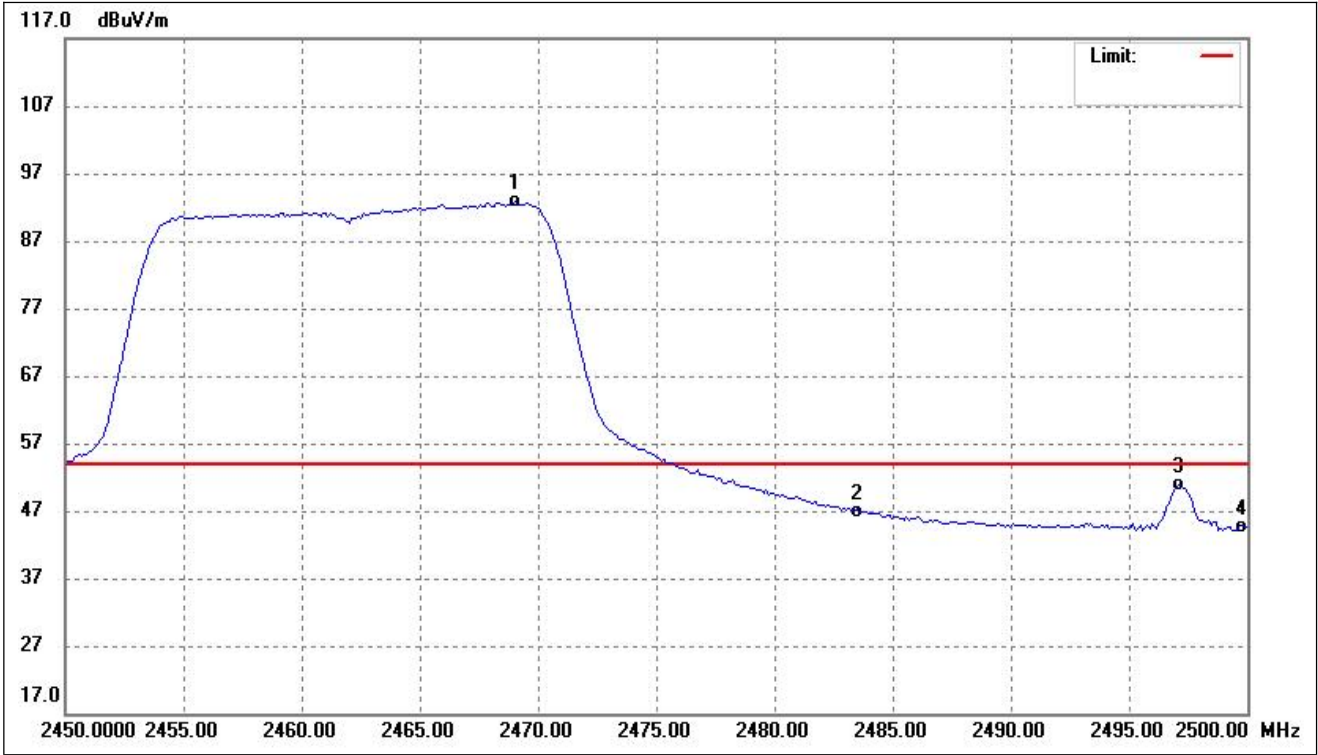
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.725	94.11	0.86	94.97	/	/	Average Detector
	2462.826	103.16	0.86	104.02	/	/	Peak Detector
2	2483.500	44.01	0.91	44.92	54.00	-9.08	Average Detector
	2483.500	56.56	0.91	57.47	74.00	-16.53	Peak Detector
3	2497.194	49.21	0.94	50.15	54.00	-3.85	Average Detector
4	2500.000	43.67	0.95	44.62	54.00	-9.38	Average Detector
	2500.000	56.65	0.95	57.60	74.00	-16.40	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



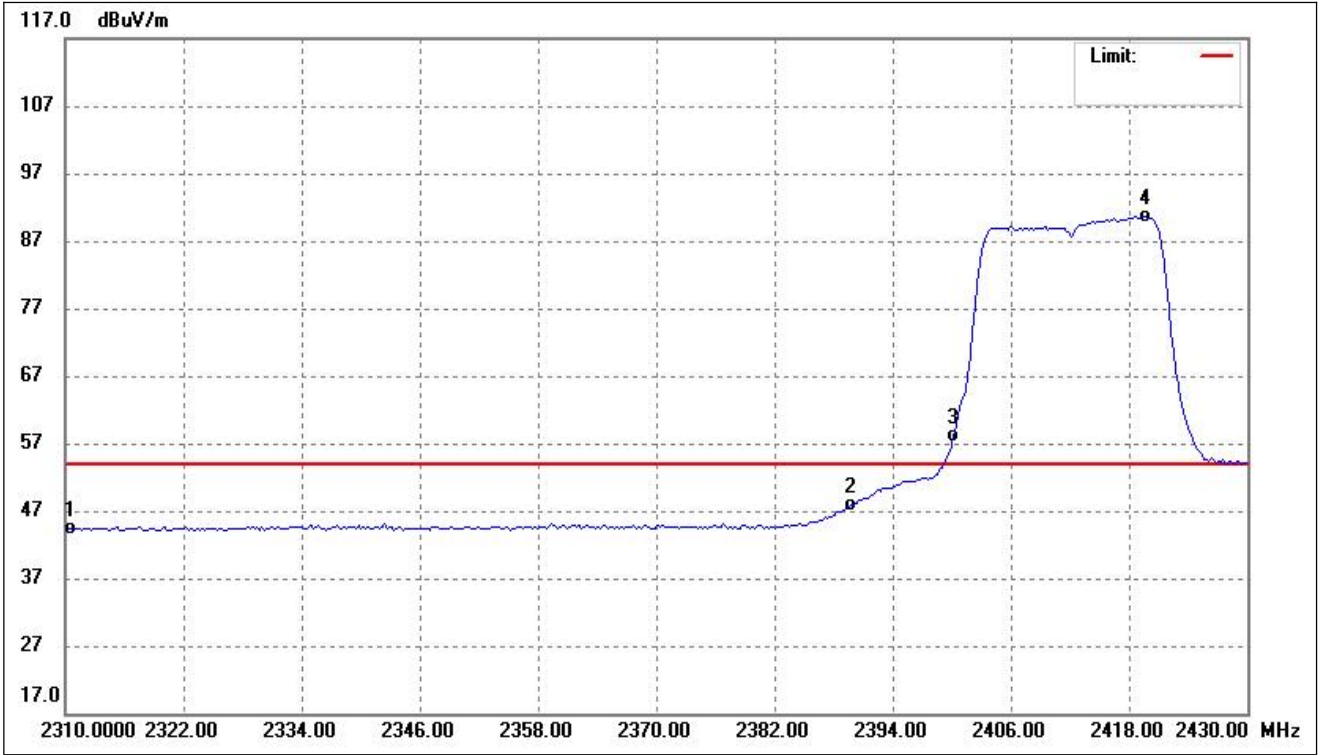
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.78	0.50	44.28	54.00	-9.72	Average Detector
	2310.000	55.50	0.50	56.00	74.00	-18.00	Peak Detector
2	2390.000	46.65	0.69	47.34	54.00	-6.66	Average Detector
	2390.000	60.95	0.69	61.64	74.00	-12.36	Peak Detector
3	2400.000	54.29	0.71	55.00	Delta=36.06dBc		Average Detector
4	2419.419	90.30	0.76	91.06			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



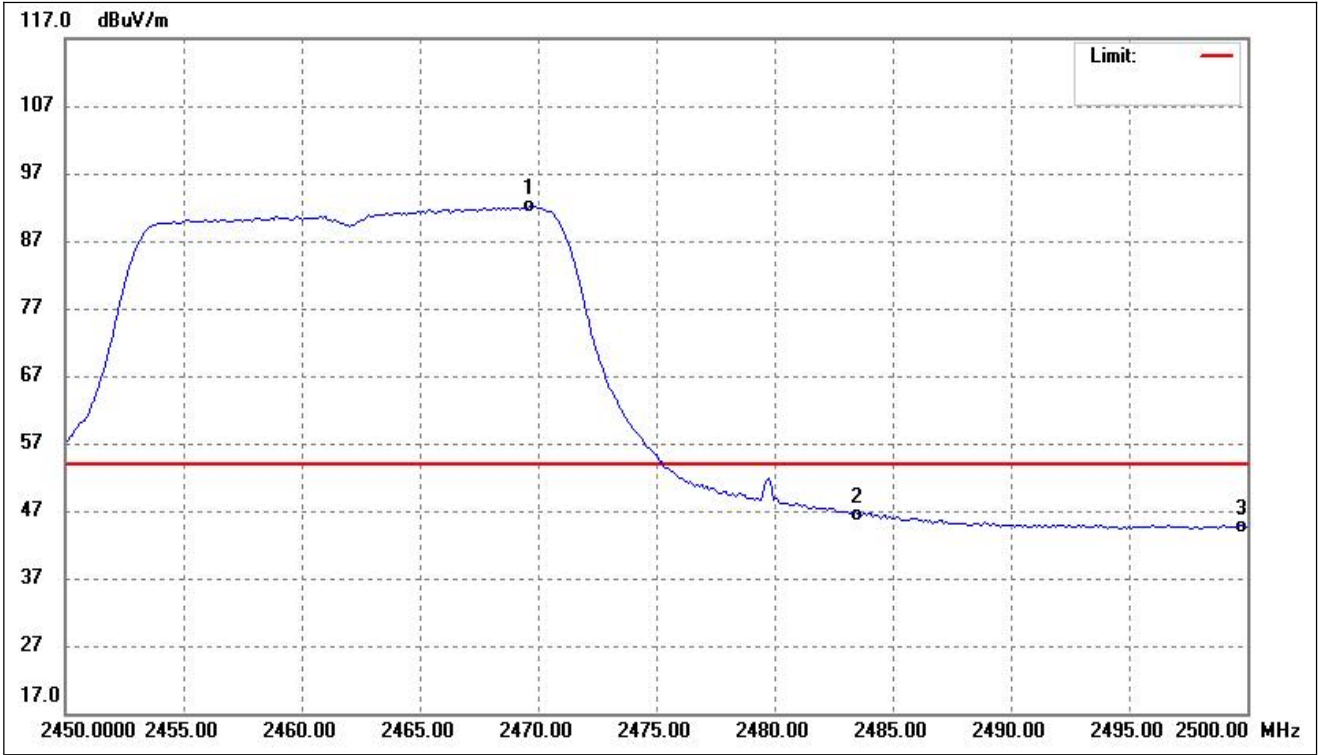
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.038	91.94	0.88	92.82	/	/	Average Detector
	2467.735	103.32	0.87	104.19	/	/	Peak Detector
2	2483.500	46.09	0.91	47.00	54.00	-7.00	Average Detector
	2483.500	60.73	0.91	61.64	74.00	-12.36	Peak Detector
3	2497.094	49.95	0.94	50.89	54.00	-3.11	Average Detector
4	2500.000	43.59	0.95	44.54	54.00	-9.46	Average Detector
	2500.000	56.85	0.95	57.80	74.00	-16.20	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Horizontal(worst case)



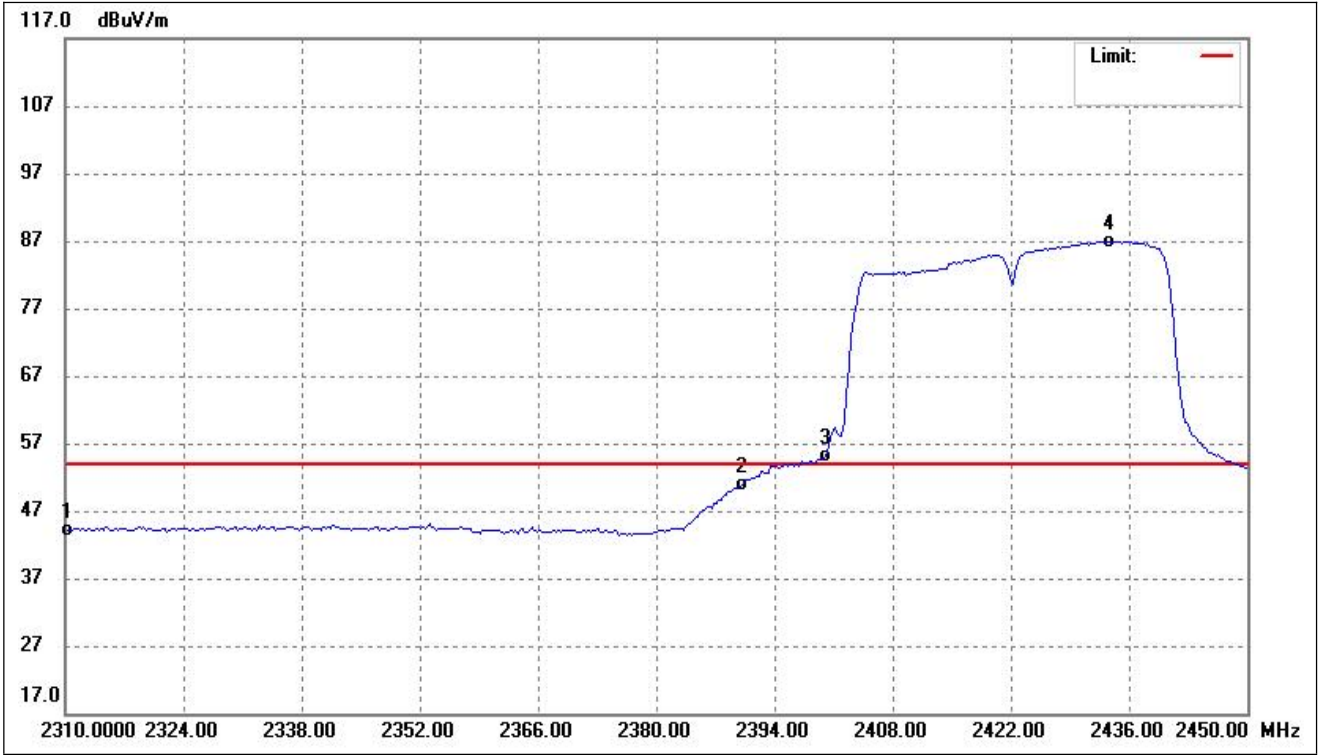
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.84	0.50	44.34	54.00	-9.66	Average Detector
	2310.000	55.59	0.50	56.09	74.00	-17.91	Peak Detector
2	2390.000	47.21	0.69	47.90	54.00	-6.10	Average Detector
	2390.000	63.47	0.69	64.16	74.00	-9.84	Peak Detector
3	2400.000	57.37	0.71	58.08	Delta=32.53dBc		Average Detector
4	2419.659	89.85	0.76	90.61			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



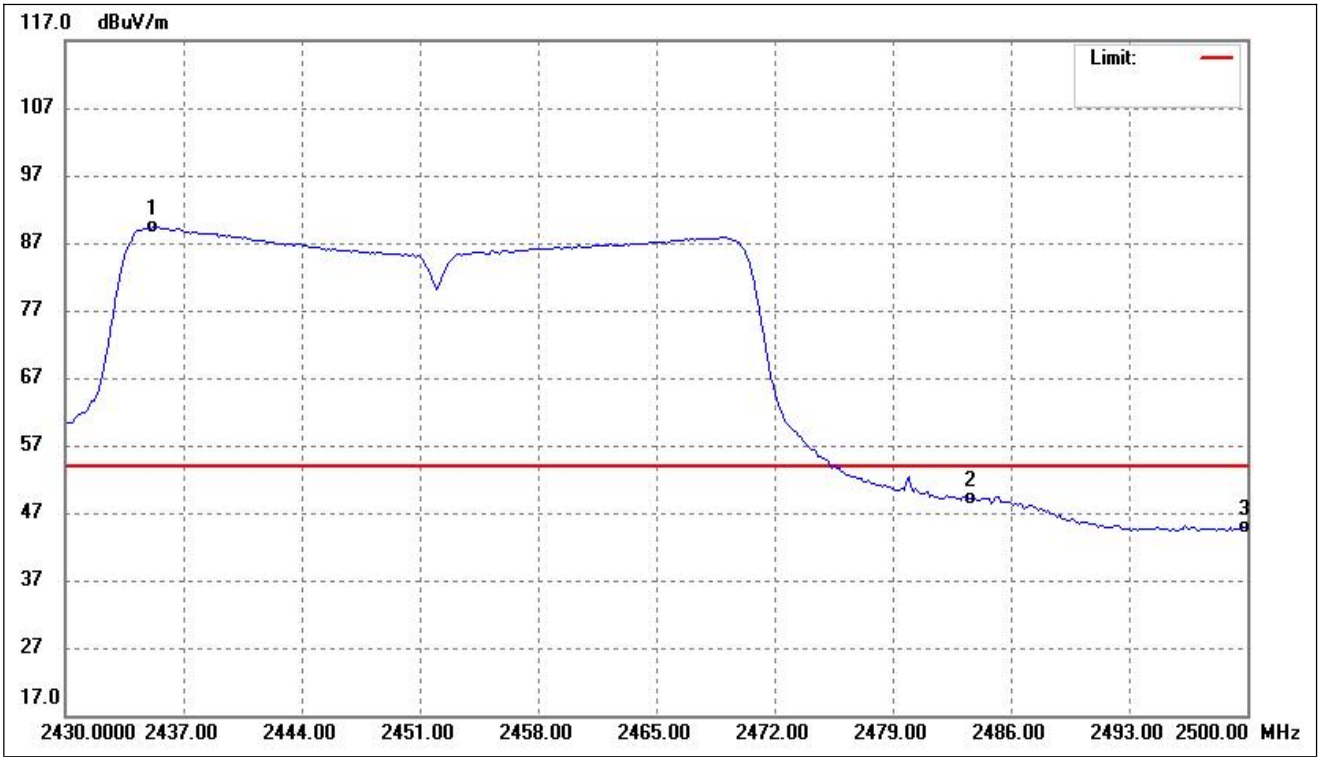
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.639	91.22	0.88	92.10	/	/	Average Detector
	2468.036	101.37	0.87	102.24	/	/	Peak Detector
2	2483.500	45.57	0.91	46.48	54.00	-7.52	Average Detector
	2483.500	58.13	0.91	59.04	74.00	-14.96	Peak Detector
3	2500.000	43.67	0.95	44.62	54.00	-9.38	Average Detector
	2500.000	55.77	0.95	56.72	74.00	-17.28	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.70	0.50	44.20	54.00	-9.80	Average Detector
	2310.000	56.18	0.50	56.68	74.00	-17.32	Peak Detector
2	2390.000	50.31	0.69	51.00	54.00	-3.00	Average Detector
	2390.000	67.42	0.69	68.11	74.00	-5.89	Peak Detector
3	2400.000	54.51	0.71	55.22	Delta=31.72dBc		Average Detector
4	2433.727	86.15	0.79	86.94			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2435.190	88.64	0.80	89.44	/	/	Average Detector
	2435.892	98.71	0.80	99.51	/	/	Peak Detector
2	2483.500	48.10	0.91	49.01	54.00	-4.99	Average Detector
	2483.500	60.31	0.91	61.22	74.00	-12.78	Peak Detector
3	2500.000	43.85	0.95	44.80	54.00	-9.20	Average Detector
	2500.000	56.05	0.95	57.00	74.00	-17.00	Peak Detector

➤ Conducted test

Please refer to Appendix D

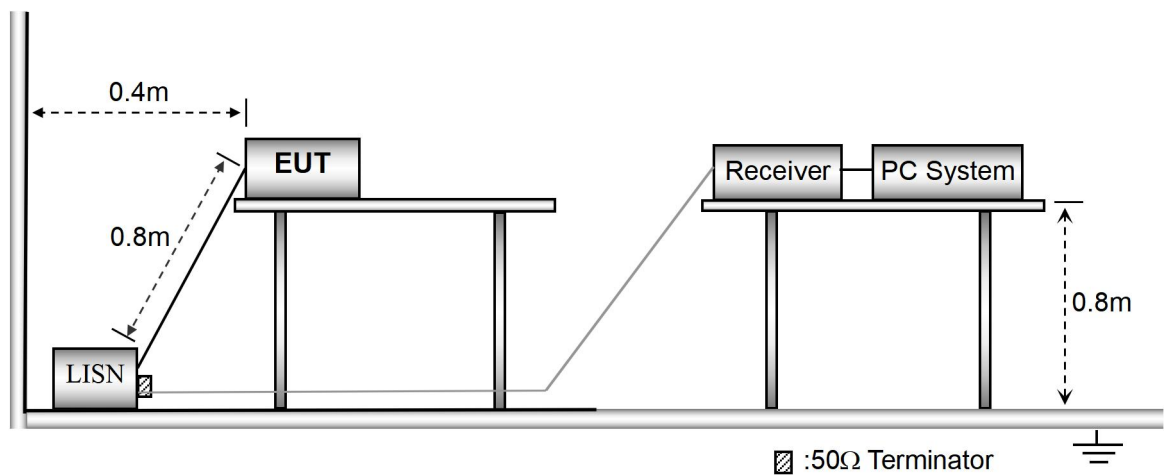
9. Conducted Emissions

9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



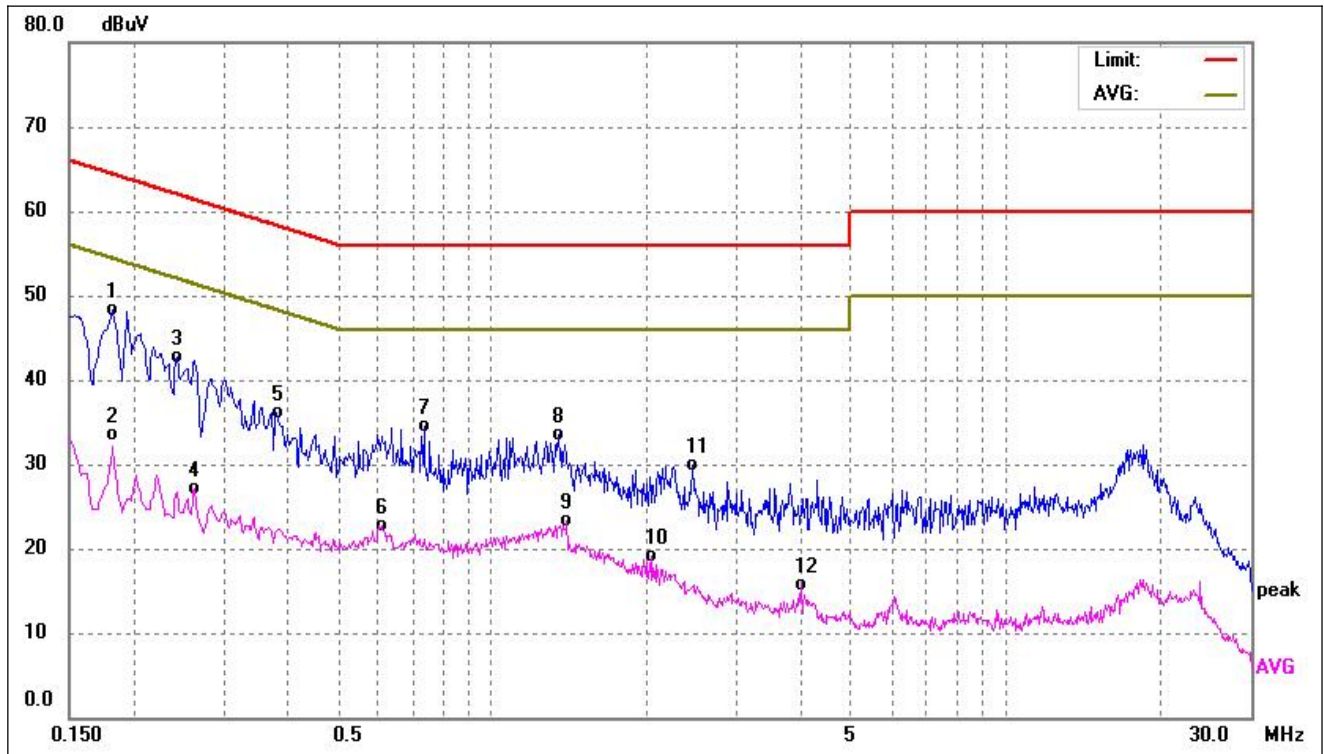
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

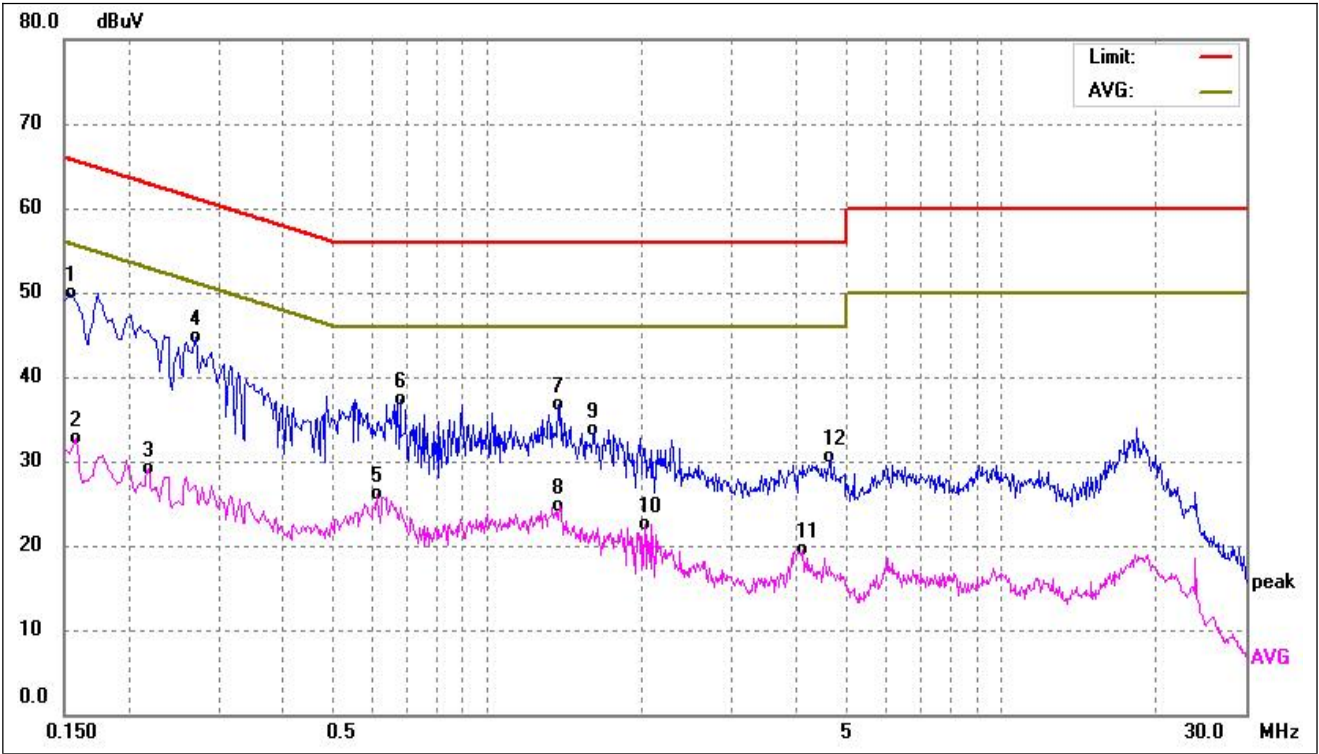
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1819	38.73	9.56	48.29	64.39	-16.10	QP
2	0.1819	23.88	9.56	33.44	54.39	-20.95	AVG
3	0.2419	33.08	9.63	42.71	62.03	-19.32	QP
4	0.2620	17.49	9.63	27.12	51.36	-24.24	AVG
5	0.3780	26.43	9.64	36.07	58.32	-22.25	QP
6	0.6099	13.02	9.69	22.71	46.00	-23.29	AVG
7	0.7378	24.78	9.74	34.52	56.00	-21.48	QP
8	1.3500	23.87	9.62	33.49	56.00	-22.51	QP
9	1.3979	13.64	9.60	23.24	46.00	-22.76	AVG
10	2.0539	9.75	9.36	19.11	46.00	-26.89	AVG
11	2.4539	20.44	9.38	29.82	56.00	-26.18	QP
12	4.0060	6.15	9.46	15.61	46.00	-30.39	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	40.37	9.45	49.82	65.78	-15.96	QP
2	0.1580	23.22	9.46	32.68	55.56	-22.88	AVG
3	0.2179	19.42	9.63	29.05	52.89	-23.84	AVG
4	0.2700	35.08	9.63	44.71	61.12	-16.41	QP
5	0.6099	16.40	9.69	26.09	46.00	-19.91	AVG
6	0.6780	27.62	9.73	37.35	56.00	-18.65	QP
7	1.3740	27.04	9.61	36.65	56.00	-19.35	QP
8	1.3819	15.07	9.61	24.68	46.00	-21.32	AVG
9	1.6140	24.21	9.51	33.72	56.00	-22.28	QP
10	2.0299	13.17	9.36	22.53	46.00	-23.47	AVG
11	4.1340	10.07	9.47	19.54	46.00	-26.46	AVG
12	4.6539	21.03	9.54	30.57	56.00	-25.43	QP

APPENDIX SUMMARY

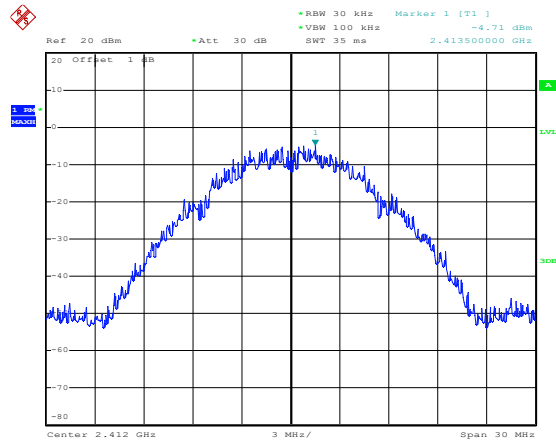
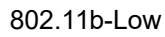
Project No.	WTX25X10275169W001	Test Engineer	Timi Huang
Start date	2025/11/4	Finish date	2025/12/19
Temperature	22.6℃	Humidity	52%
RF specifications	WIFI-2.4G		

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

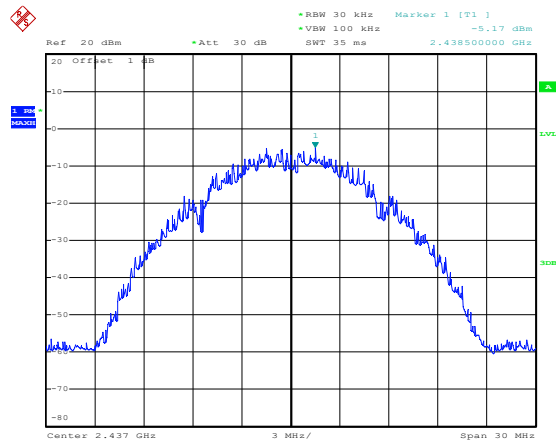
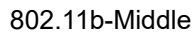
APPENDIX A

Power Spectral Density					
Test Mode	Test Channel MHz	Test Result(dBm/3kHz)		Total dBm	Limit dBm/3kHz
		Antenna 0	Antenna 1		
802.11b_1Mbps	2412	-4.71	-5.54	/	8
	2437	-5.17	-5.17	/	8
	2462	-4.33	-5.33	/	8
802.11g_6Mbps	2412	-7.26	-8.71	/	8
	2437	-7.72	-8.60	/	8
	2462	-7.01	-7.74	/	8
802.11n-HT20_MCS0	2412	-7.64	-7.31	-4.46	8
	2437	-8.80	-7.76	-5.24	8
	2462	-7.64	-7.40	-4.51	8
802.11n-HT40_MCS0	2422	-12.05	-12.65	-9.33	8
	2437	-12.28	-12.90	-9.57	8
	2452	-11.61	-12.26	-8.91	8

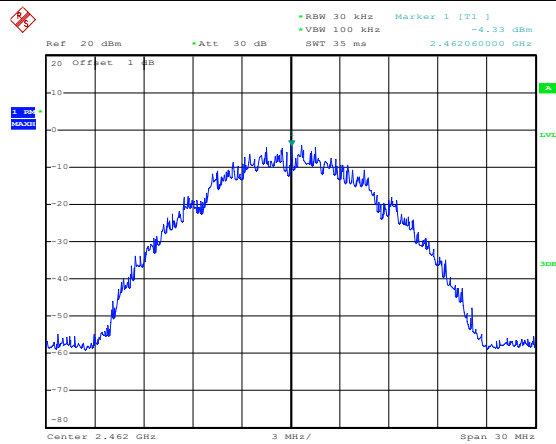
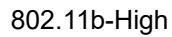
Antenna 0



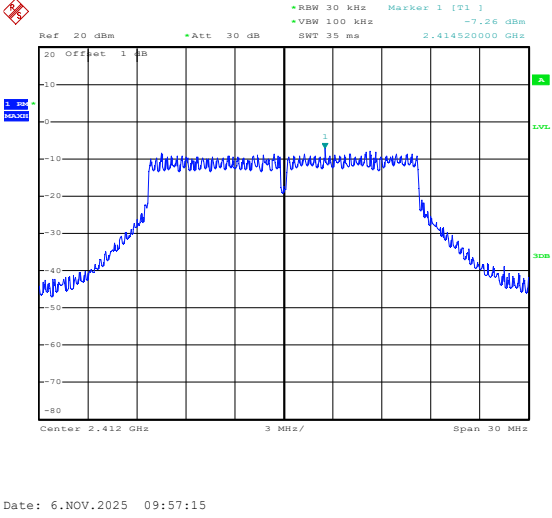
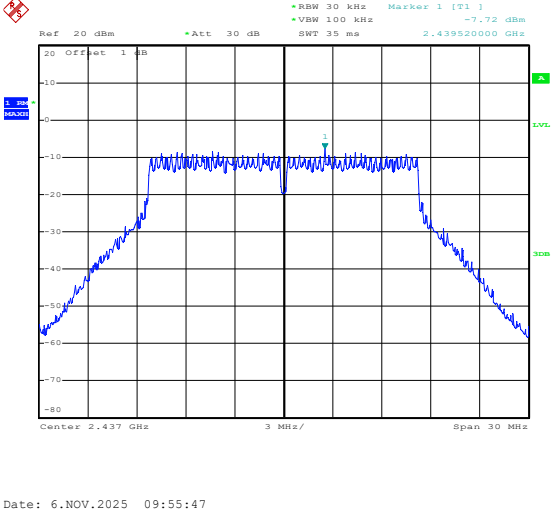
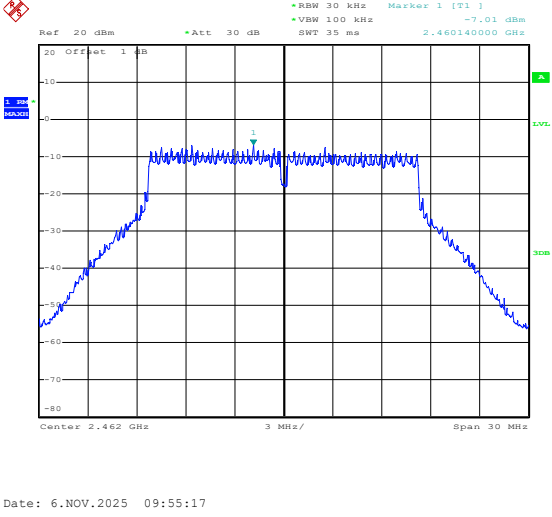
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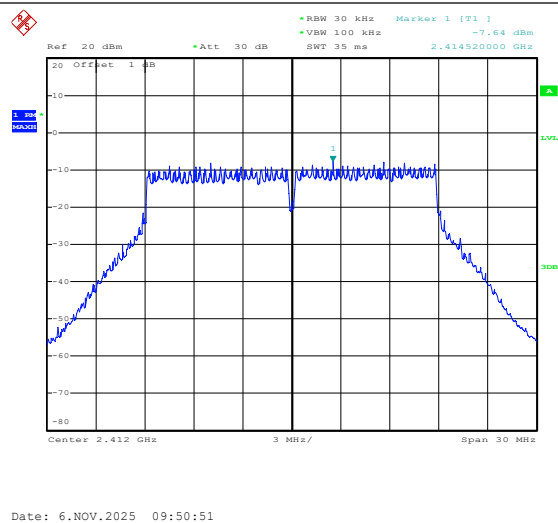
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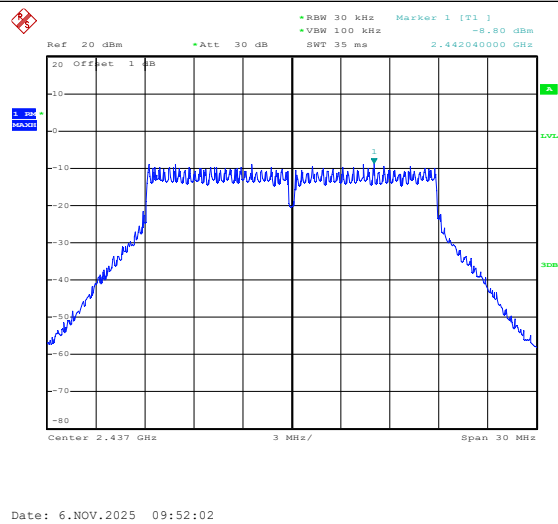
Date: 6.NOV.2025 10:03:56

802.11g-Low	 Date: 6.NOV.2025 09:57:15
802.11g-Middle	 Date: 6.NOV.2025 09:55:47
802.11g-High	 Date: 6.NOV.2025 09:55:17

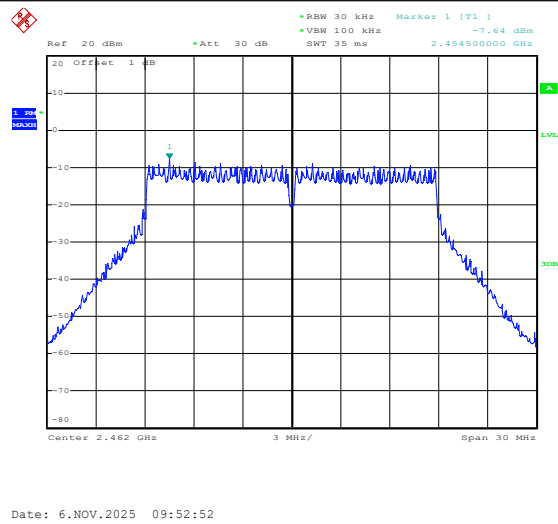
802.11n-HT20-Low

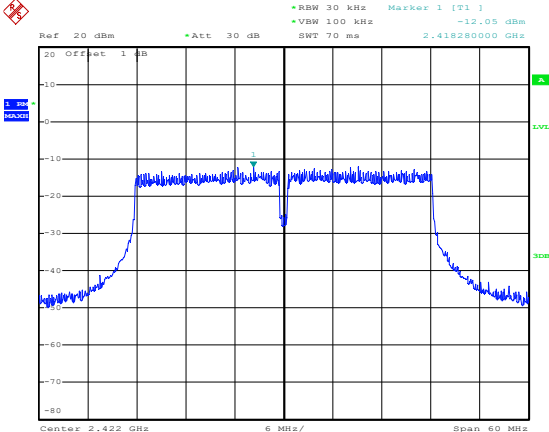
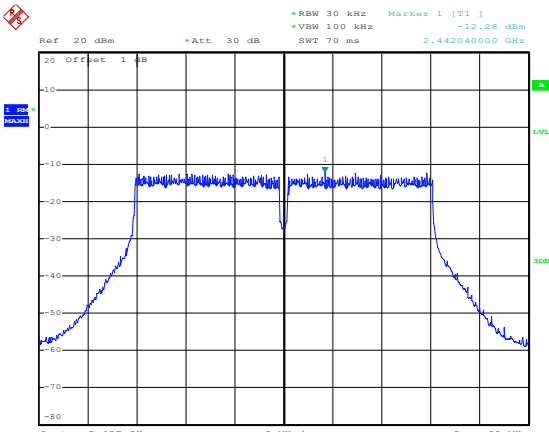
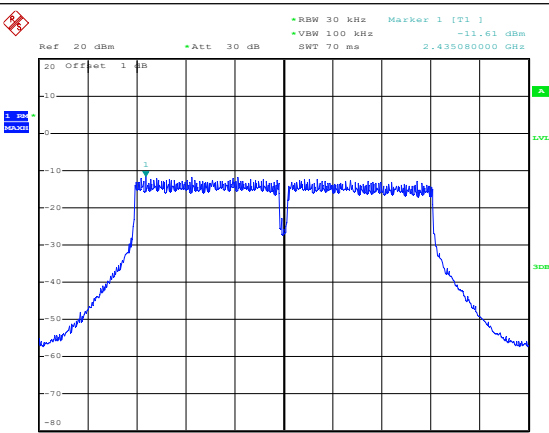


802.11n-HT20-Middle

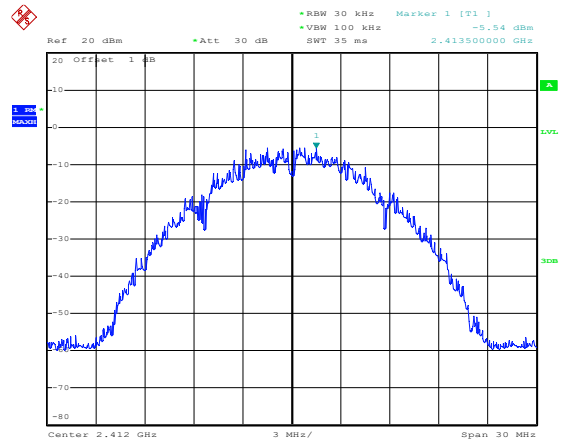
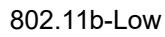


802.11n-HT20-High

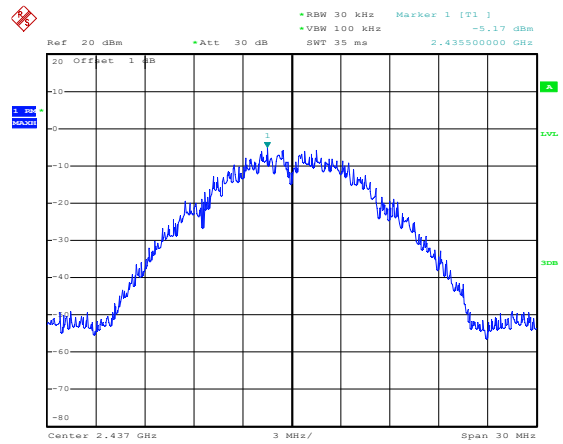
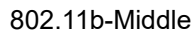


Channel	Plot Title	Ref	Att	RBW	VBW	SWT	Marker 1 [T1]	Date
802.11n-HT40-Low		20 dBm	30 dB	30 kHz	100 kHz	70 ms	-12.05 dBm 2.42280000 GHz	6.NOV.2025 09:38:18
802.11n-HT40-Middle		20 dBm	30 dB	30 kHz	100 kHz	70 ms	-12.28 dBm 2.43700000 GHz	6.NOV.2025 09:37:02
802.11n-HT40-High		20 dBm	30 dB	30 kHz	100 kHz	70 ms	-11.61 dBm 2.45200000 GHz	6.NOV.2025 09:32:39

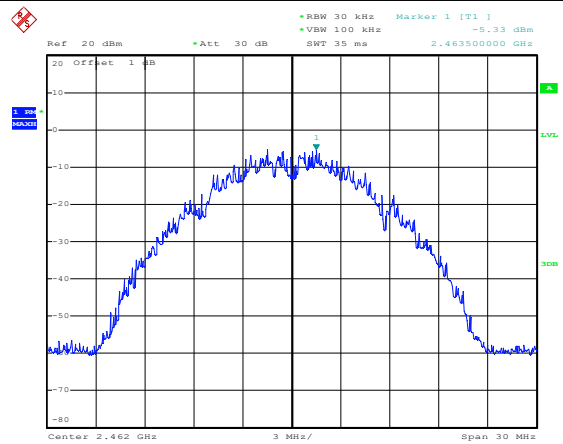
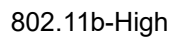
Antenna 1



Date: 6.NOV.2025 14:27:21



Date: 6.NOV.2025 14:27:54



Date: 6.NOV.2025 14:28:37

802.11g-Low

Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1] -8.71 dBm 2.414520000 GHz

Center: 2.412 GHz Span: 30 MHz

Date: 6.NOV.2025 14:25:33

802.11g-Middle

Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1] -8.60 dBm 2.435140000 GHz

Center: 2.437 GHz Span: 30 MHz

Date: 6.NOV.2025 14:25:04

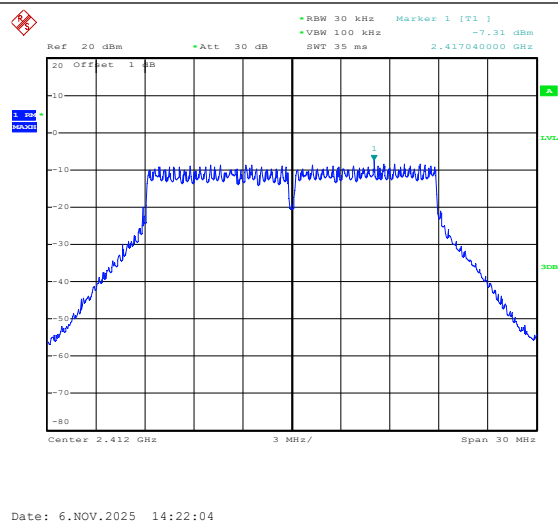
802.11g-High

Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1] -7.74 dBm 2.460140000 GHz

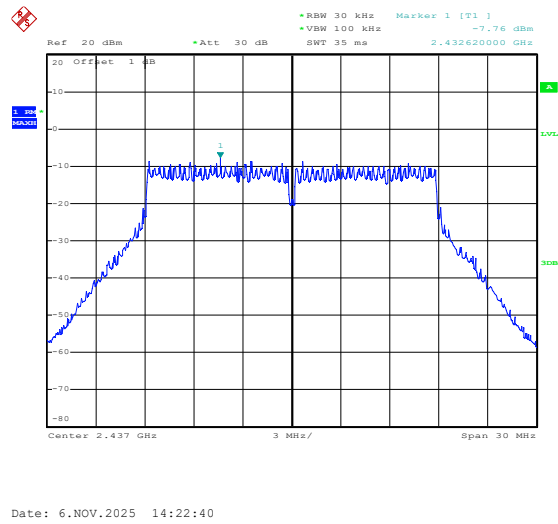
Center: 2.462 GHz Span: 30 MHz

Date: 6.NOV.2025 14:24:35

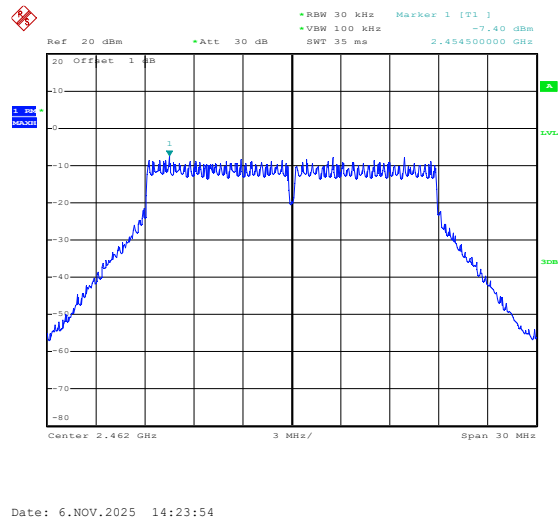
802.11n-HT20-Low



802.11n-HT20-Middle



802.11n-HT20-High

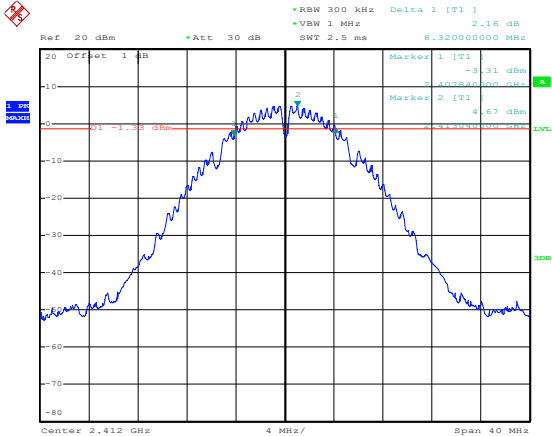
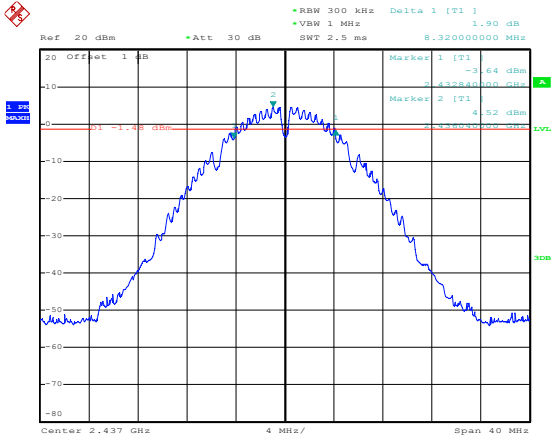
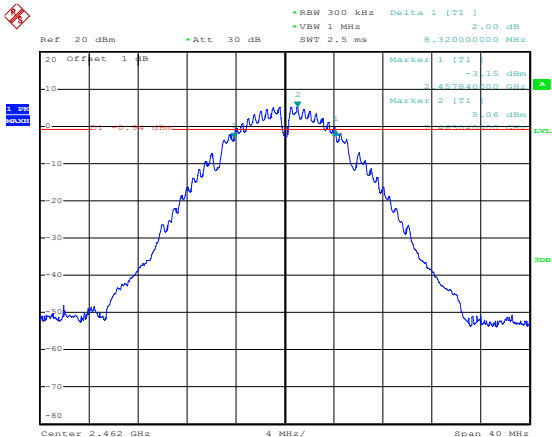


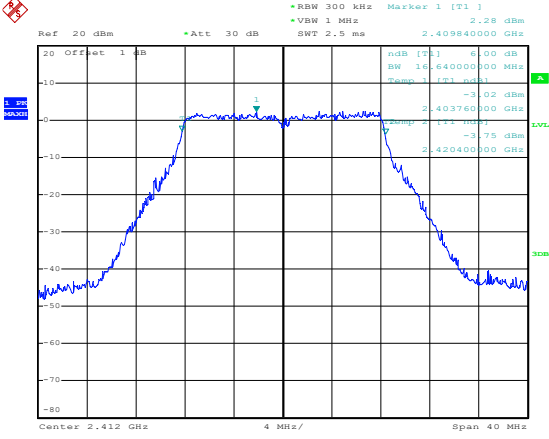
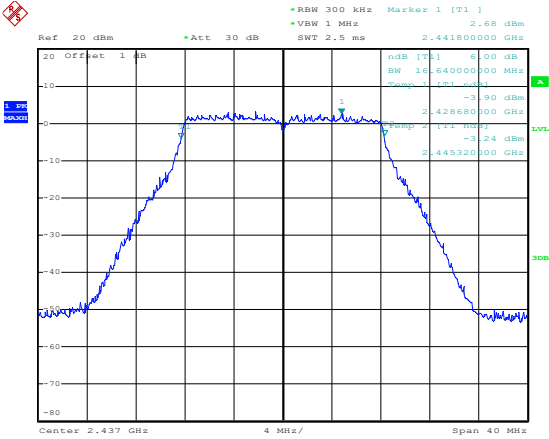
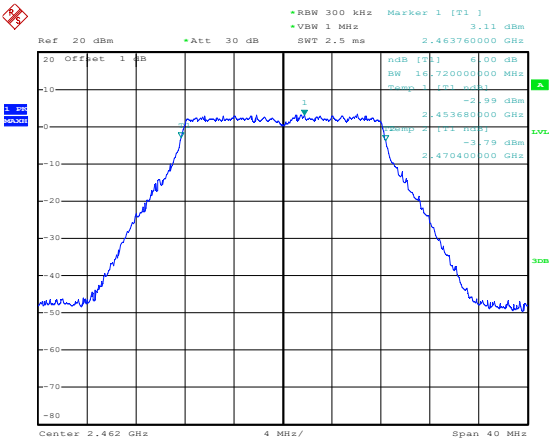
Channel	Plot Type	Center Frequency (GHz)	Span (MHz)	Ref Level (dBm)	Att (dB)	RBW (kHz)	VBW (kHz)	SWT (ms)	Marker 1 [T1] (GHz)	Marker 1 [T1] (dBm)
802.11n-HT40-Low	Power Spectrum	2.422	60	20	30	30	100	70	2.423480000	-12.65
802.11n-HT40-Middle	Power Spectrum	2.437	60	20	30	30	100	70	2.430760000	-12.90
802.11n-HT40-High	Power Spectrum	2.452	60	20	30	30	100	70	2.434480000	-12.26

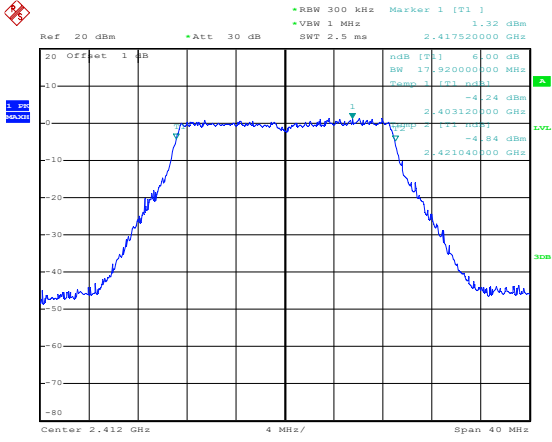
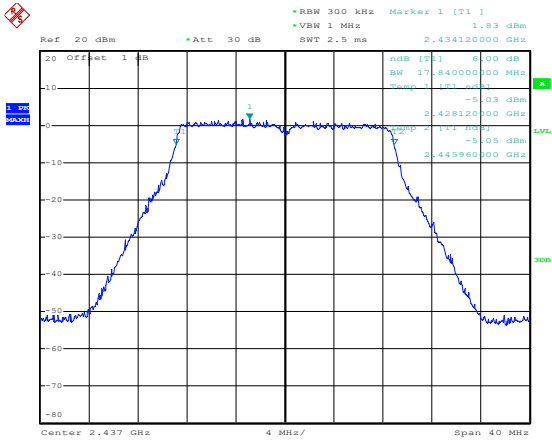
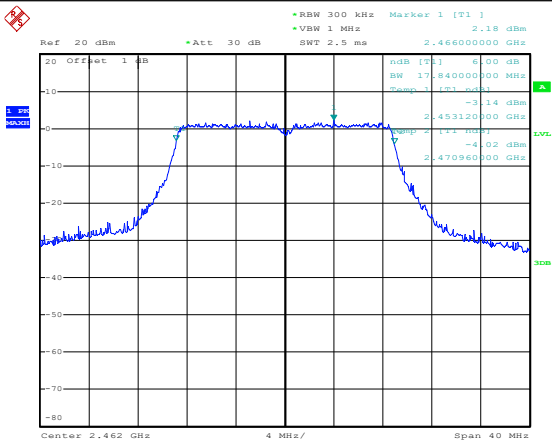
APPENDIX B

DTS Bandwidth				
Test Mode	Test Channel MHz	Test Result(MHz)		Limit kHz
		Antenna 0	Antenna 1	
802.11b_1Mbps	2412	8.32	8.32	≥500
	2437	8.32	7.84	≥500
	2462	8.32	8.32	≥500
802.11g_6Mbps	2412	16.64	16.64	≥500
	2437	16.64	16.64	≥500
	2462	16.72	16.72	≥500
802.11n-HT20_MCS0	2412	17.92	17.84	≥500
	2437	17.84	17.84	≥500
	2462	17.84	18.00	≥500
802.11n-HT40_MCS0	2422	36.48	37.12	≥500
	2437	36.64	36.64	≥500
	2452	37.12	37.28	≥500

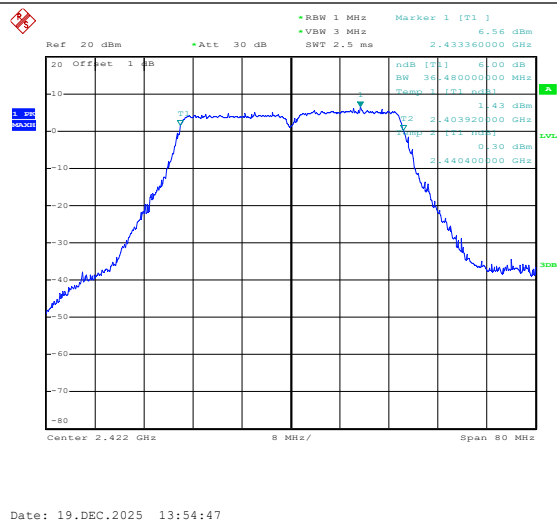
Antenna 0

802.11b-Low	 Ref 20 dBm *Att 30 dB RBW 300 kHz Delta 1 [T1] 2.16 dB VBW 1 MHz SWT 2.5 ms 8.320000000 MHz Marker 1 [T1] -3.31 dBm Marker 2 [T1] 4.67 dBm Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:48:22
802.11b-Middle	 Ref 20 dBm *Att 30 dB RBW 300 kHz Delta 1 [T1] 1.90 dB VBW 1 MHz SWT 2.5 ms 8.320000000 MHz Marker 1 [T1] -3.64 dBm Marker 2 [T1] 4.52 dBm Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:49:21
802.11b-High	 Ref 20 dBm *Att 30 dB RBW 300 kHz Delta 1 [T1] 2.00 dB VBW 1 MHz SWT 2.5 ms 8.320000000 MHz Marker 1 [T1] -3.15 dBm Marker 2 [T1] 5.06 dBm Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:50:09

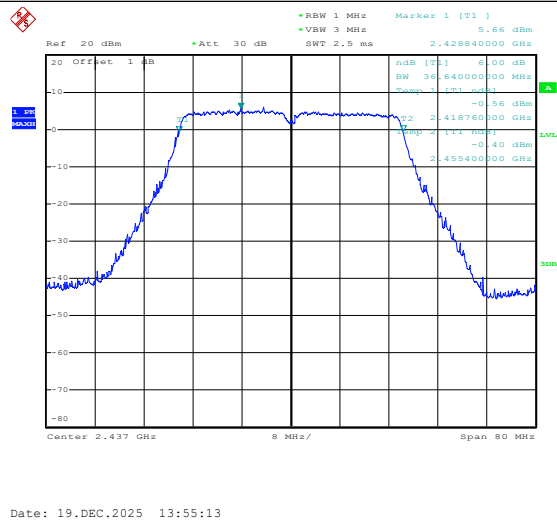
802.11g-Low	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.28 dBm •VSW 1 MHz SW 16.64000000 MHz SWT 2.5 ms 2.409840000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.64000000 MHz Temp 1 [T1] 0.00 dB -3.02 dBm 2.403760000 GHz -3.75 dBm 2.420400000 GHz 3dB 1dB Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:52:06
802.11g-Middle	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.68 dBm •VSW 1 MHz SW 16.64000000 MHz SWT 2.5 ms 2.441800000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.64000000 MHz Temp 1 [T1] 0.00 dB -3.90 dBm 2.428680000 GHz -3.24 dBm 2.445320000 GHz 3dB 1dB Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:51:42
802.11g-High	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 3.11 dBm •VSW 1 MHz SW 16.72000000 MHz SWT 2.5 ms 2.463760000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.72000000 MHz Temp 1 [T1] 0.00 dB -2.99 dBm 2.453680000 GHz -3.79 dBm 2.470400000 GHz 3dB 1dB Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:51:17

802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 1.32 dBm VSW 1 MHz SWT 2.5 ms 2.417520000 GHz Offset 1 dB dB [T1] 0.00 dB BW 17.920000000 MHz Temp 1 [T1] 0.00 dB 1 -4.24 dBm 2.403120000 GHz 2 -4.54 dBm 2.423040000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:52:38
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 1.83 dBm VSW 1 MHz SWT 2.5 ms 2.434120000 GHz Offset 1 dB dB [T1] 0.00 dB BW 17.840000000 MHz Temp 1 [T1] 0.00 dB 1 -5.03 dBm 2.428120000 GHz 2 -5.05 dBm 2.445960000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:53:10
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.18 dBm VSW 1 MHz SWT 2.5 ms 2.466000000 GHz Offset 1 dB dB [T1] 0.00 dB BW 17.840000000 MHz Temp 1 [T1] 0.00 dB 1 -2.14 dBm 2.453120000 GHz 2 -4.02 dBm 2.470960000 GHz Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:53:44

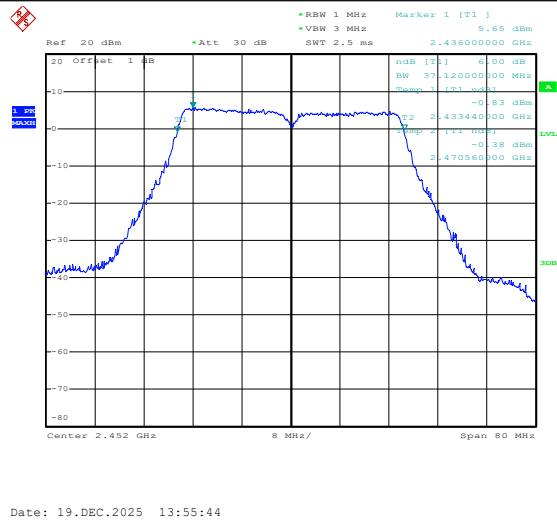
802.11n-HT40-Low



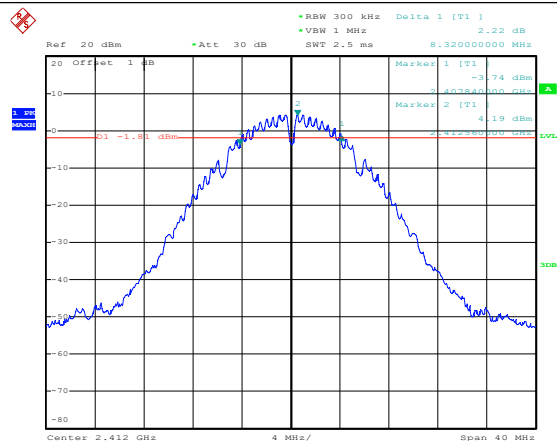
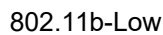
802.11n-HT40-Middle



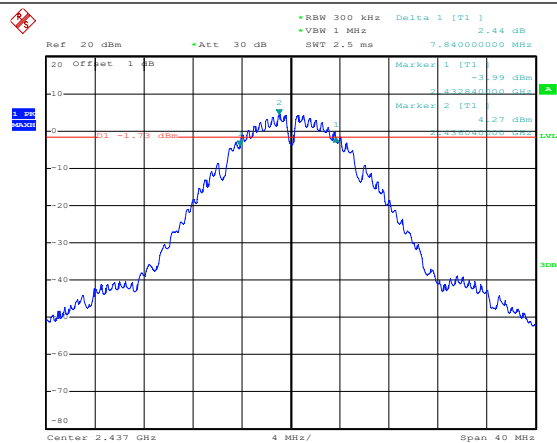
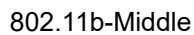
802.11n-HT40-High



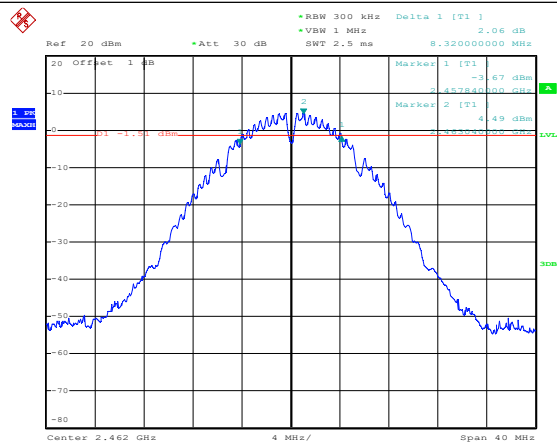
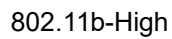
Antenna 2



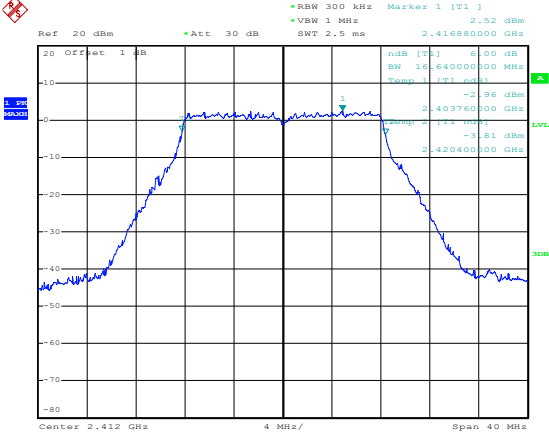
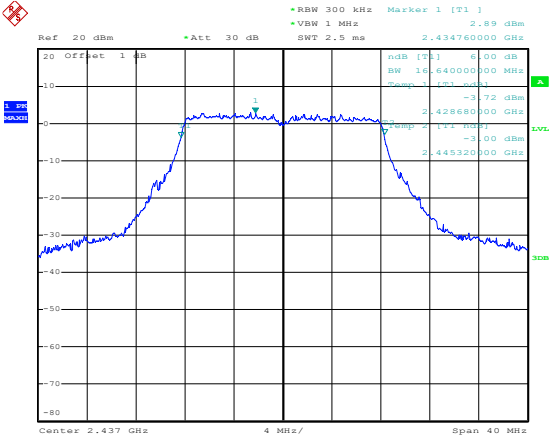
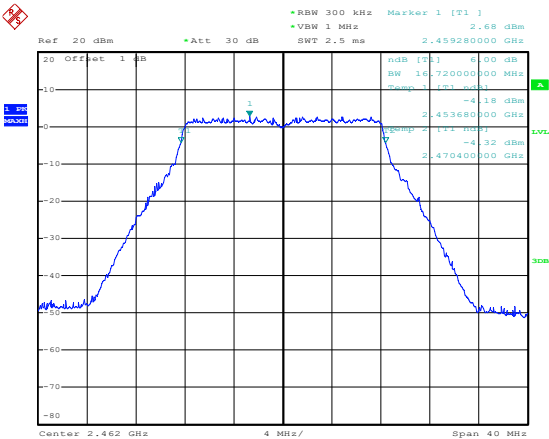
Date: 19.DEC.2025 14:08:59

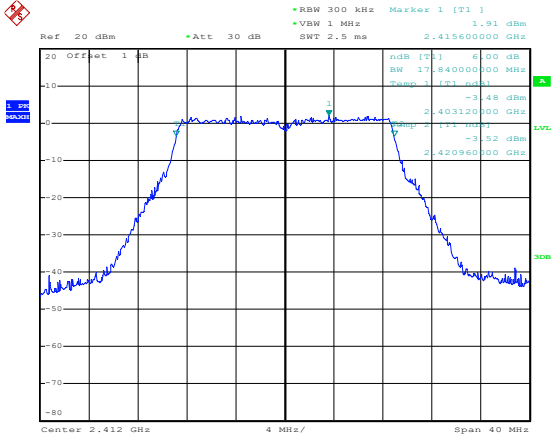
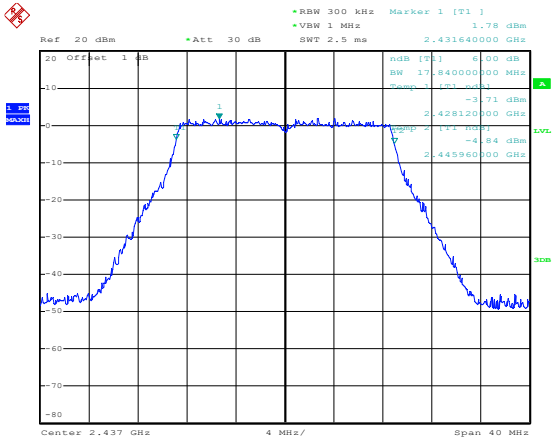
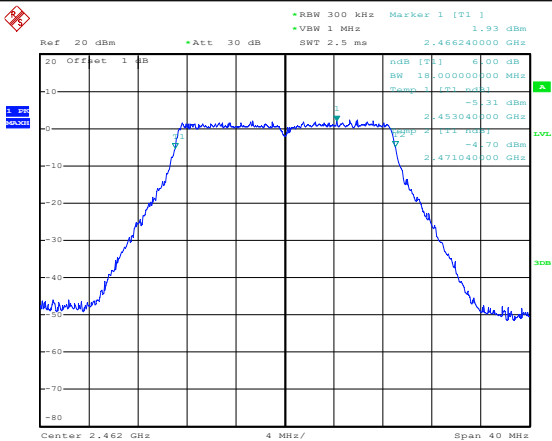


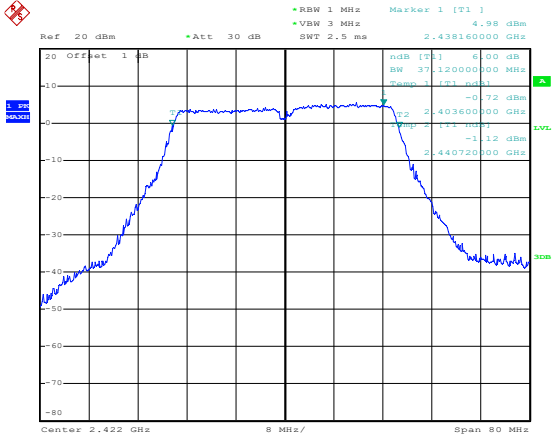
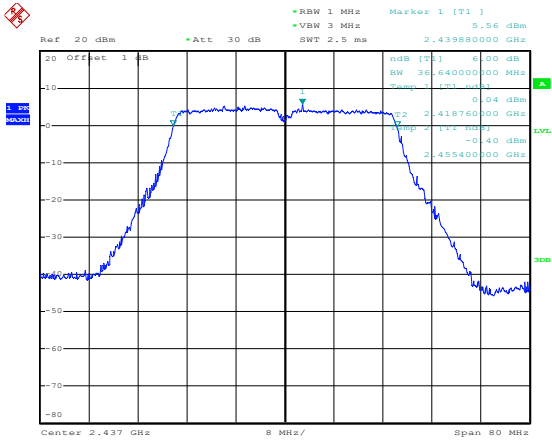
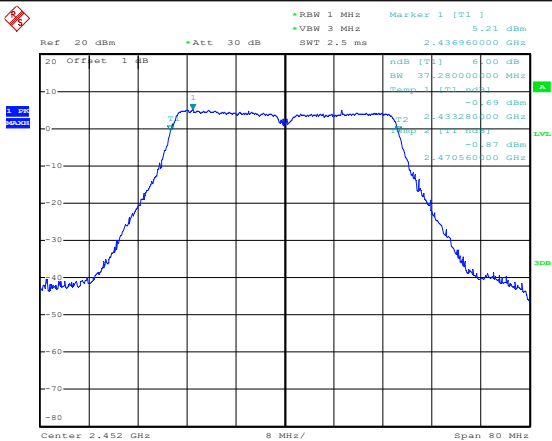
Date: 19.DEC.2025 14:10:26



Date: 19.DEC.2025 14:11:28

802.11g-Low	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.52 dBm VSW 1 MHz BW 16.64000000 MHz SWT 2.5 ms 2.416880000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.64000000 MHz SWT 2.5 ms 2.416880000 GHz dB [T1] -2.96 dBm 2.403760000 GHz dB [T1] -2.96 dBm 2.420400000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 14:04:27
802.11g-Middle	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.89 dBm VSW 1 MHz BW 16.64000000 MHz SWT 2.5 ms 2.434760000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.64000000 MHz SWT 2.5 ms 2.434760000 GHz dB [T1] -3.72 dBm 2.428660000 GHz dB [T1] -3.72 dBm 2.445320000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 14:02:46
802.11g-High	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 2.68 dBm VSW 1 MHz BW 16.72000000 MHz SWT 2.5 ms 2.459280000 GHz Offset 1 dB dB [T1] 0.00 dB BW 16.72000000 MHz SWT 2.5 ms 2.459280000 GHz dB [T1] -4.18 dBm 2.453680000 GHz dB [T1] -4.32 dBm 2.470400000 GHz Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 14:01:37

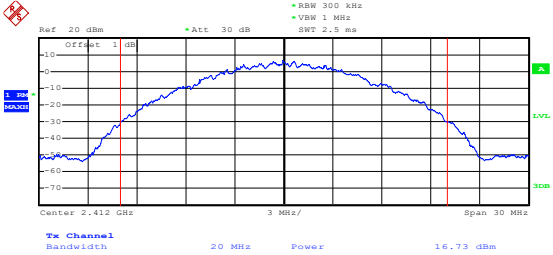
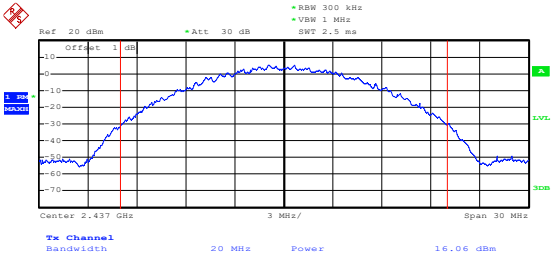
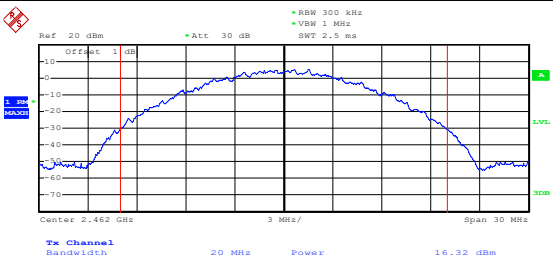
802.11n-HT20-Low	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 1.91 dBm VSW 1 MHz SWT 2.5 ms 2.41560000 GHz Offset 1 dB dB [T1] 0.00 dB BW 17.84000000 MHz Temp 1 [T1] 0.00 dB -3.48 dBm 2.40312000 GHz -3.52 dBm 2.42096000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 13:59:44
802.11n-HT20-Middle	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 1.78 dBm VSW 1 MHz SWT 2.5 ms 2.43164000 GHz Offset 1 dB dB [T1] 0.00 dB BW 17.84000000 MHz Temp 1 [T1] 0.00 dB -3.71 dBm 2.42812000 GHz -4.84 dBm 2.44596000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 14:00:13
802.11n-HT20-High	 Ref 20 dBm •Att 30 dB RBW 300 kHz Marker 1 [T1] 1.93 dBm VSW 1 MHz SWT 2.5 ms 2.46624000 GHz Offset 1 dB dB [T1] 0.00 dB BW 18.00000000 MHz Temp 1 [T1] 0.00 dB -3.31 dBm 2.45304000 GHz -4.70 dBm 2.47104000 GHz Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 19.DEC.2025 14:00:37

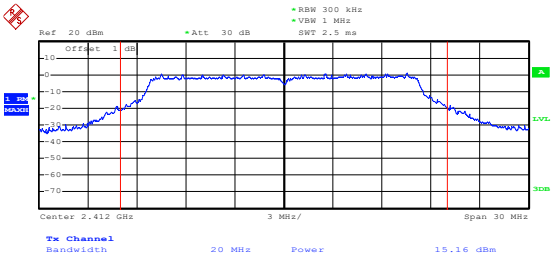
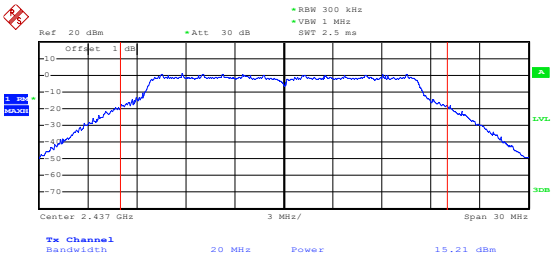
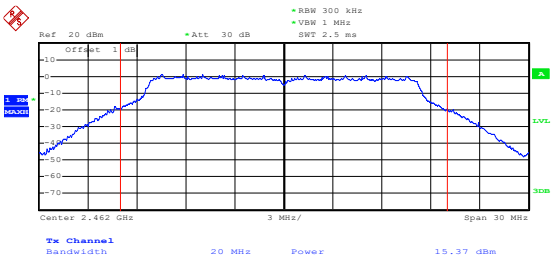
802.11n-HT40-Low	 Date: 19.DEC.2025 13:58:45
802.11n-HT40-Middle	 Date: 19.DEC.2025 13:58:10
802.11n-HT40-High	 Date: 19.DEC.2025 13:57:40

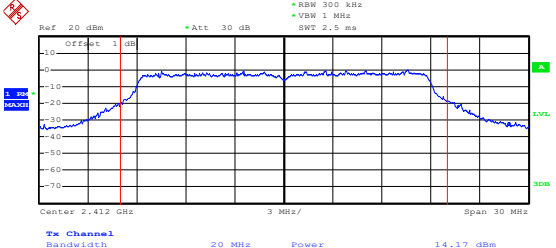
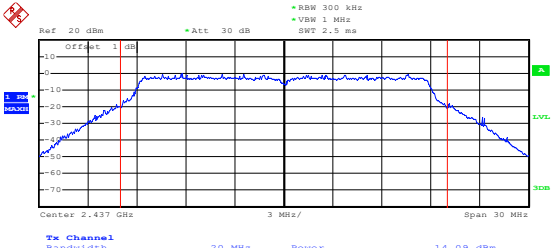
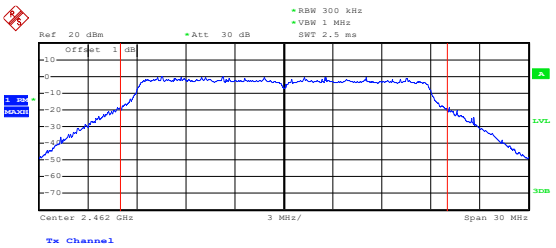
APPENDIX C

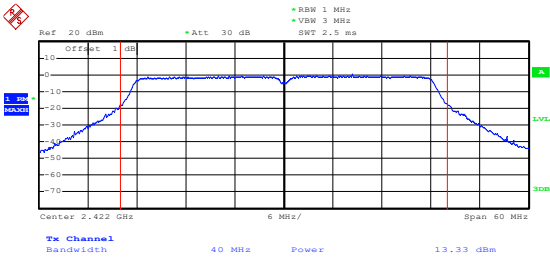
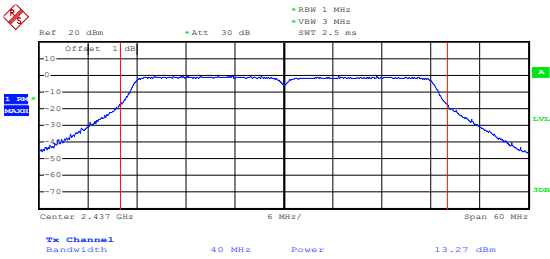
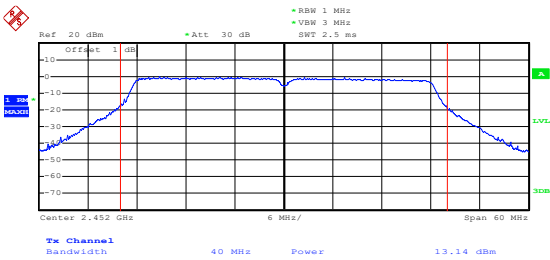
RF Output Power					
Test Mode	Frequency MHz	Antenna 0 dBm	Antenna 1 dBm	Total Power dBm	Limit dBm
802.11b_1Mbps	2412	16.73	16.53	/	30.00
	2437	16.06	16.23	/	30.00
	2462	16.32	16.05	/	30.00
802.11g_6Mbps	2412	15.16	15.10	/	30.00
	2437	15.21	15.07	/	30.00
	2462	15.37	15.18	/	30.00
802.11n HT20_MCS0	2412	14.17	14.76	17.49	30.00
	2437	14.09	14.85	17.50	30.00
	2462	14.31	14.88	17.61	30.00
802.11n HT40_MCS0	2422	13.33	13.03	16.19	30.00
	2437	13.27	13.10	16.20	30.00
	2452	13.14	13.05	16.11	30.00

Antenna 0

802.11b-Low	 Date: 6.NOV.2025 09:11:07
802.11b-Middle	 Date: 6.NOV.2025 09:11:50
802.11b-High	 Date: 6.NOV.2025 09:12:18

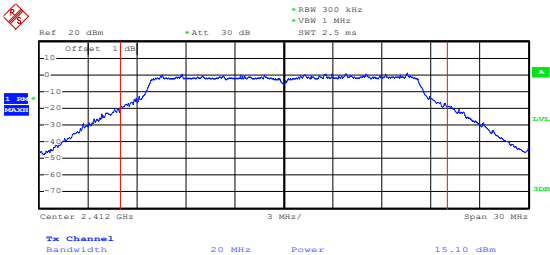
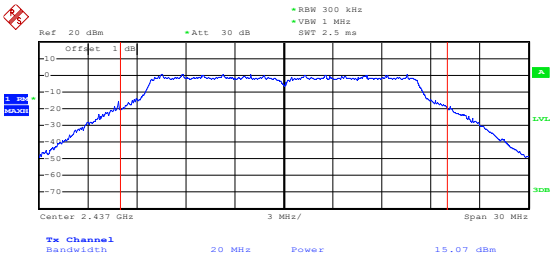
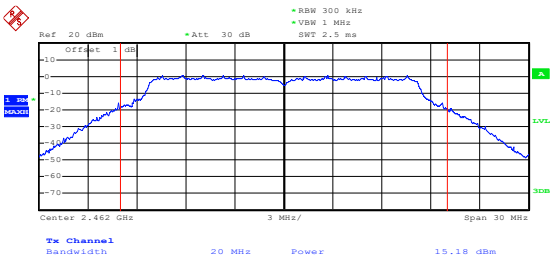
802.11g-Low	 Date: 6.NOV.2025 09:14:17
802.11g-Middle	 Date: 6.NOV.2025 09:14:54
802.11g-High	 Date: 6.NOV.2025 09:15:30

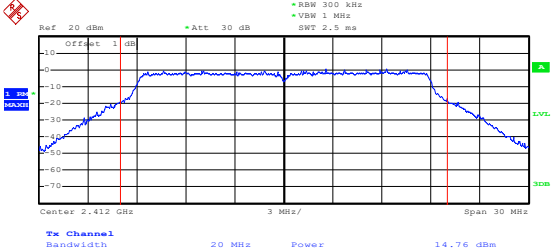
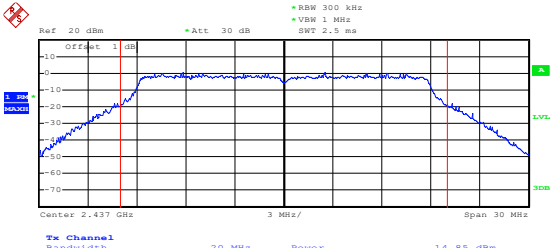
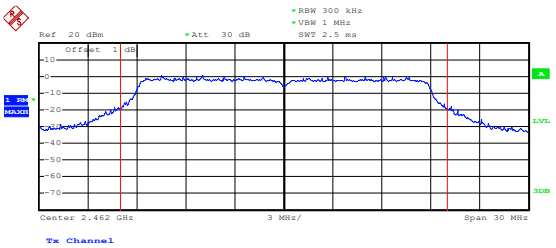
802.11n-HT20-Low	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 2.5 ms Center: 2.412 GHz Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.17 dBm Date: 6.NOV.2025 09:16:48
802.11n-HT20-Middle	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 2.5 ms Center: 2.437 GHz Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.09 dBm Date: 6.NOV.2025 09:17:24
802.11n-HT20-High	 Ref: 20 dBm Offset: 1 dB Att: 30 dB RBW: 300 kHz VBW: 1 MHz SWT: 2.5 ms Center: 2.462 GHz Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.31 dBm Date: 6.NOV.2025 09:17:59

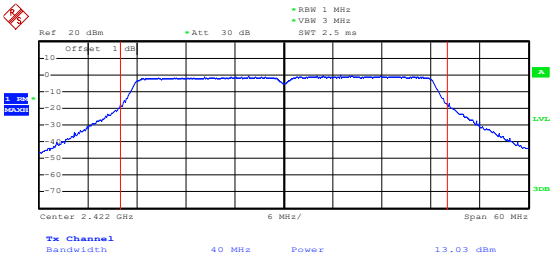
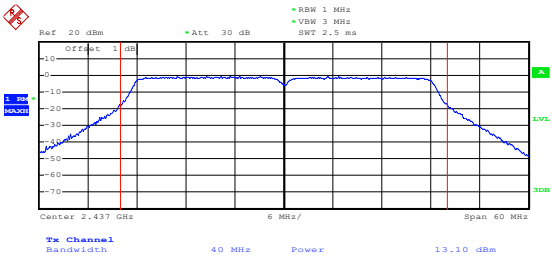
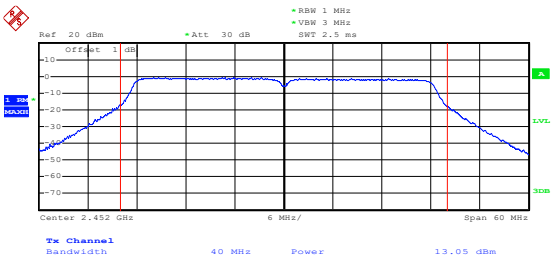
802.11n-HT40-Low	 Date: 6.NOV.2025 09:19:28
802.11n-HT40-Middle	 Date: 6.NOV.2025 09:20:36
802.11n-HT40-High	 Date: 6.NOV.2025 09:21:18

Antenna 1

802.11b-Low	Date: 6.NOV.2025 14:04:19
802.11b-Middle	Date: 6.NOV.2025 14:04:51
802.11b-High	Date: 6.NOV.2025 14:05:27

802.11g-Low	 Date: 6.NOV.2025 14:08:06
802.11g-Middle	 Date: 6.NOV.2025 14:07:31
802.11g-High	 Date: 6.NOV.2025 14:06:55

802.11n-HT20-Low	 Date: 6.NOV.2025 14:09:13
802.11n-HT20-Middle	 Date: 6.NOV.2025 14:09:42
802.11n-HT20-High	 Date: 6.NOV.2025 14:10:16

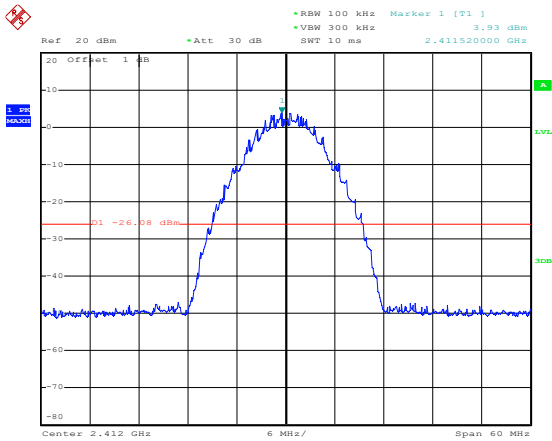
802.11n-HT40-Low	 Date: 6.NOV.2025 14:11:36
802.11n-HT40-Middle	 Date: 6.NOV.2025 14:12:49
802.11n-HT40-High	 Date: 6.NOV.2025 14:16:05

APPENDIX D

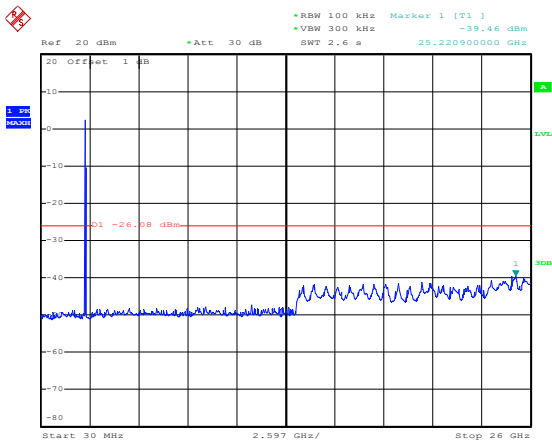
Conducted Out of Band Emissions

Antenna 0

802.11b-Low

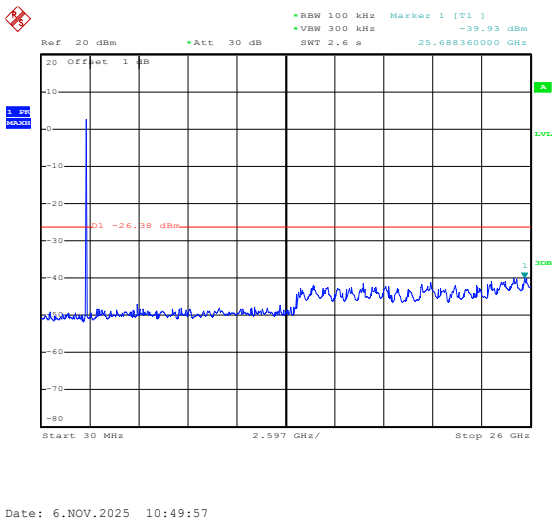
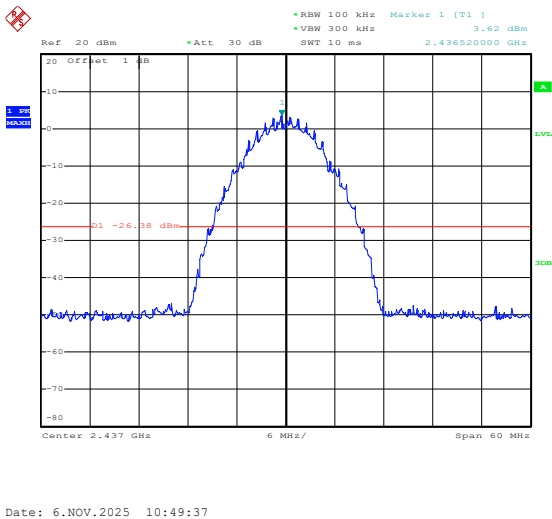


Date: 6.NOV.2025 10:48:37

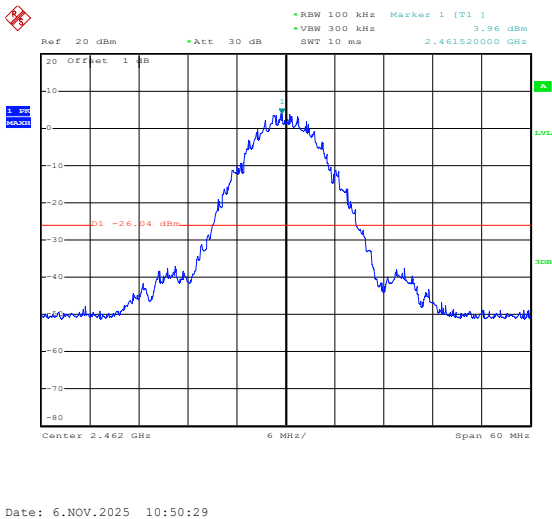


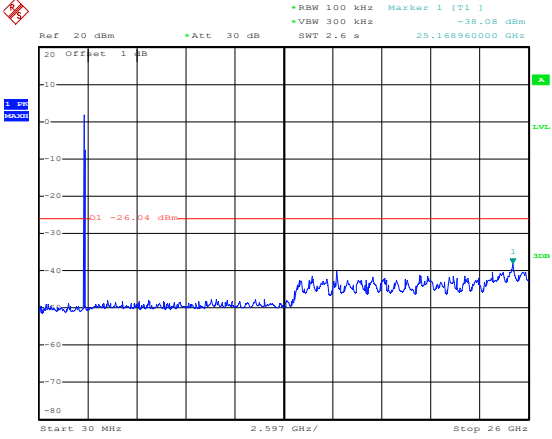
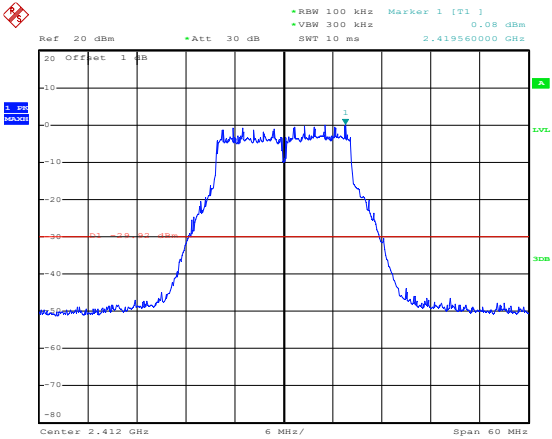
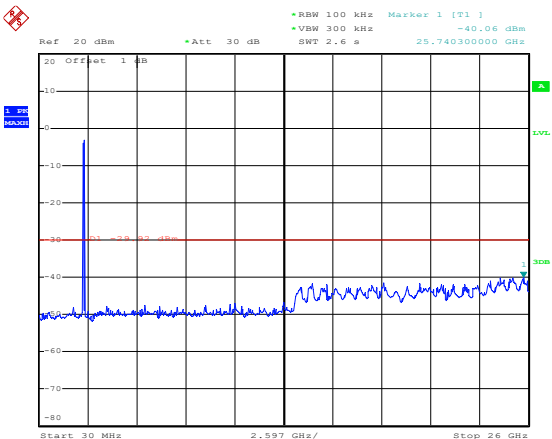
Date: 6.NOV.2025 10:48:59

802.11b-Middle

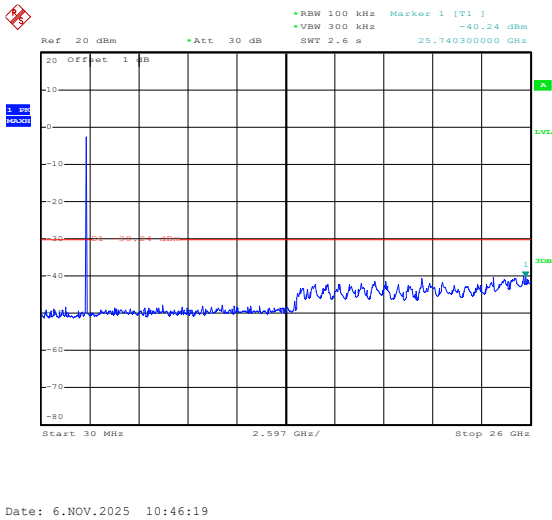
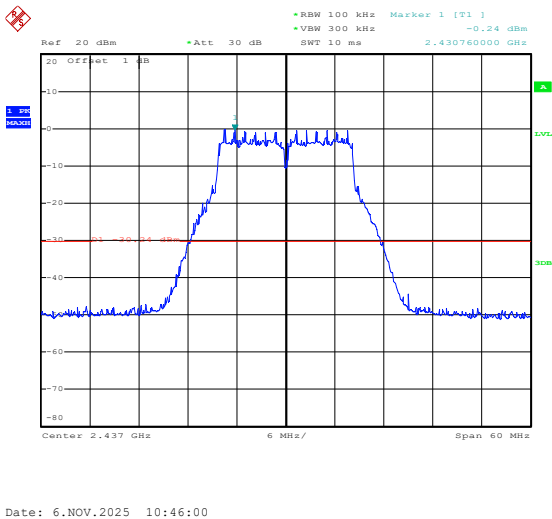


802.11b-High

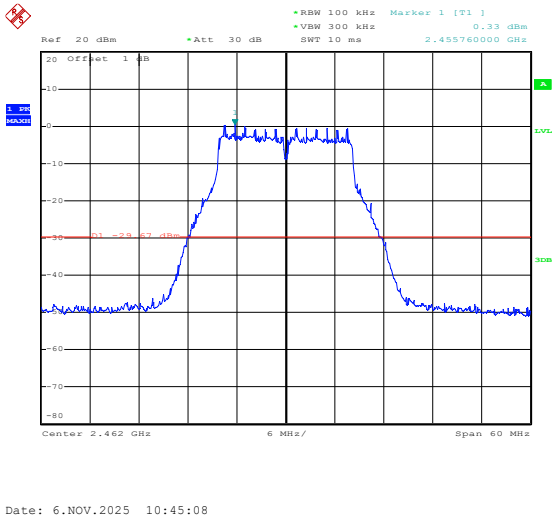


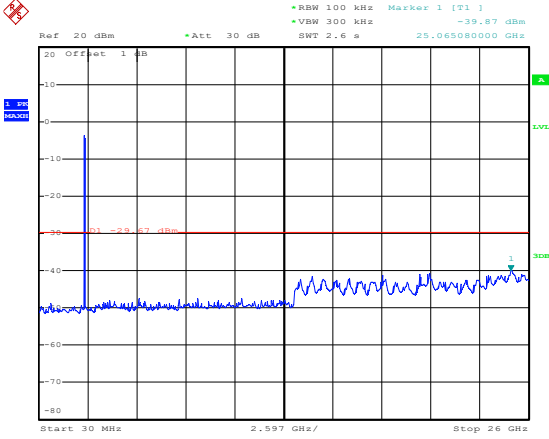
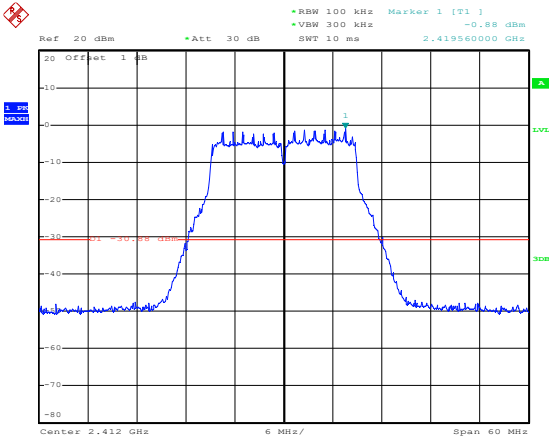
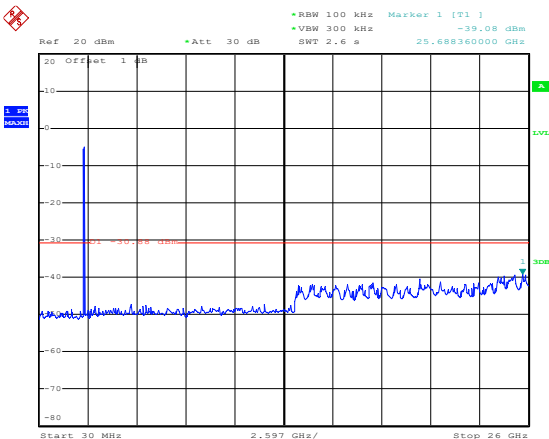
	 Date: 6.NOV.2025 10:50:54
802.11g-Low	 Date: 6.NOV.2025 10:47:01
	 Date: 6.NOV.2025 10:47:22

802.11g-Middle

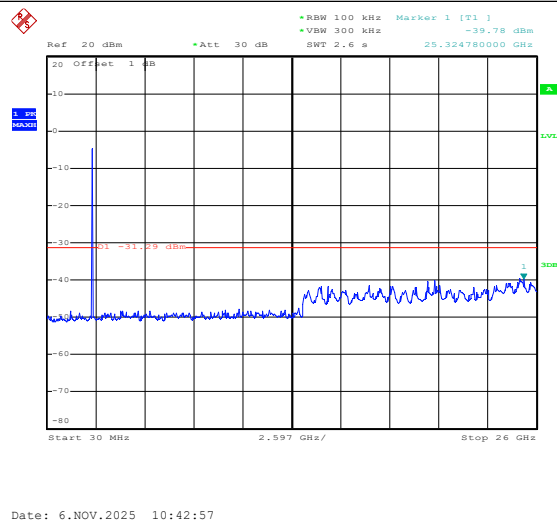
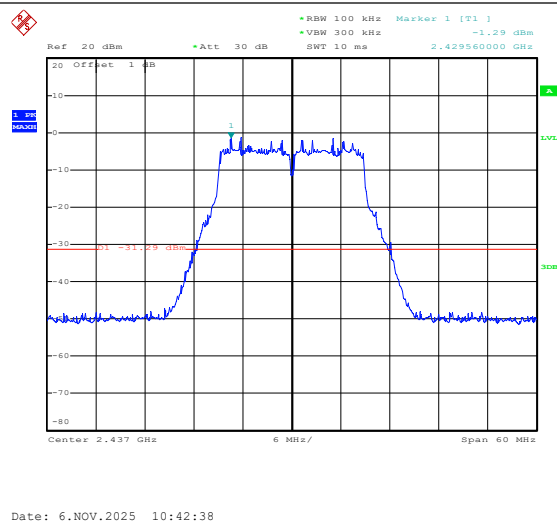


802.11g-High

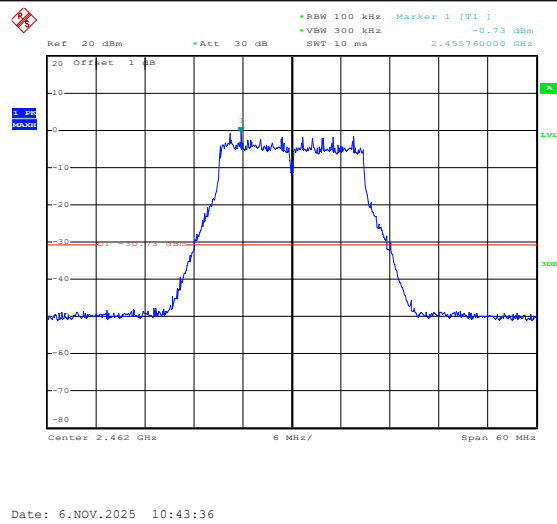


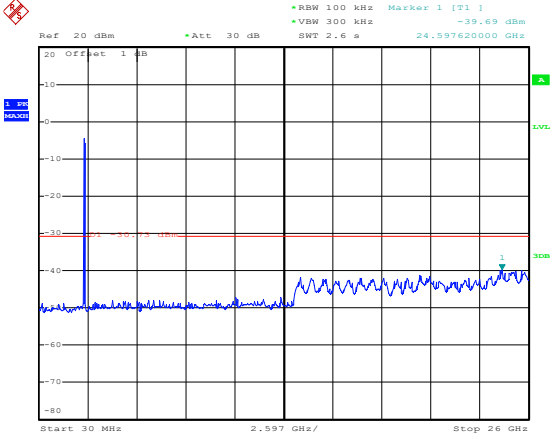
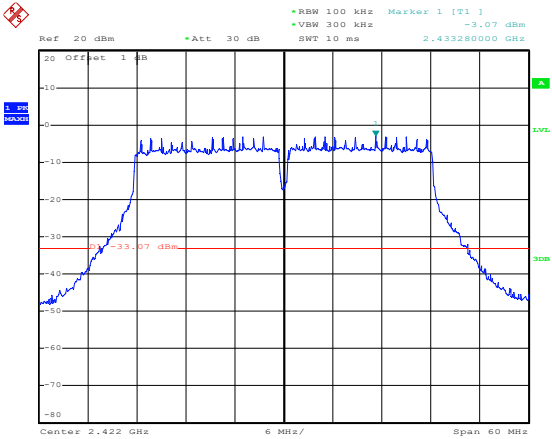
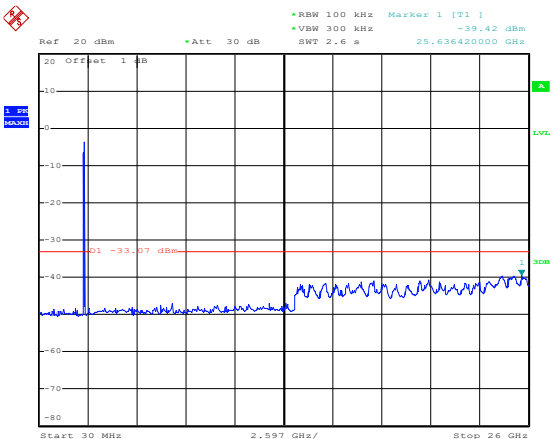
	 Date: 6.NOV.2025 10:45:27
802.11n-HT20-Low	 Date: 6.NOV.2025 10:41:26
	 Date: 6.NOV.2025 10:41:53

802.11n-HT20-Middle

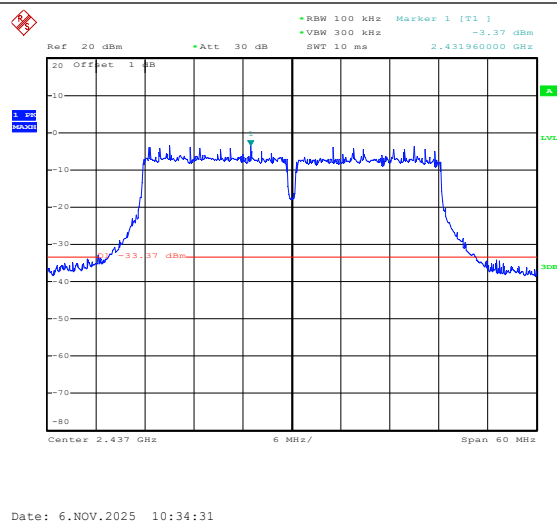


802.11n-HT20-High

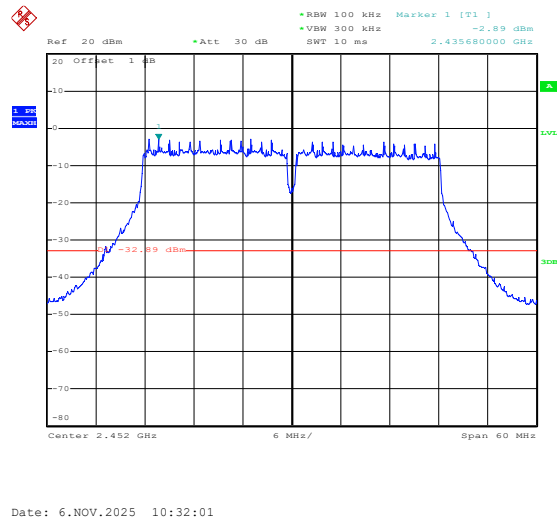


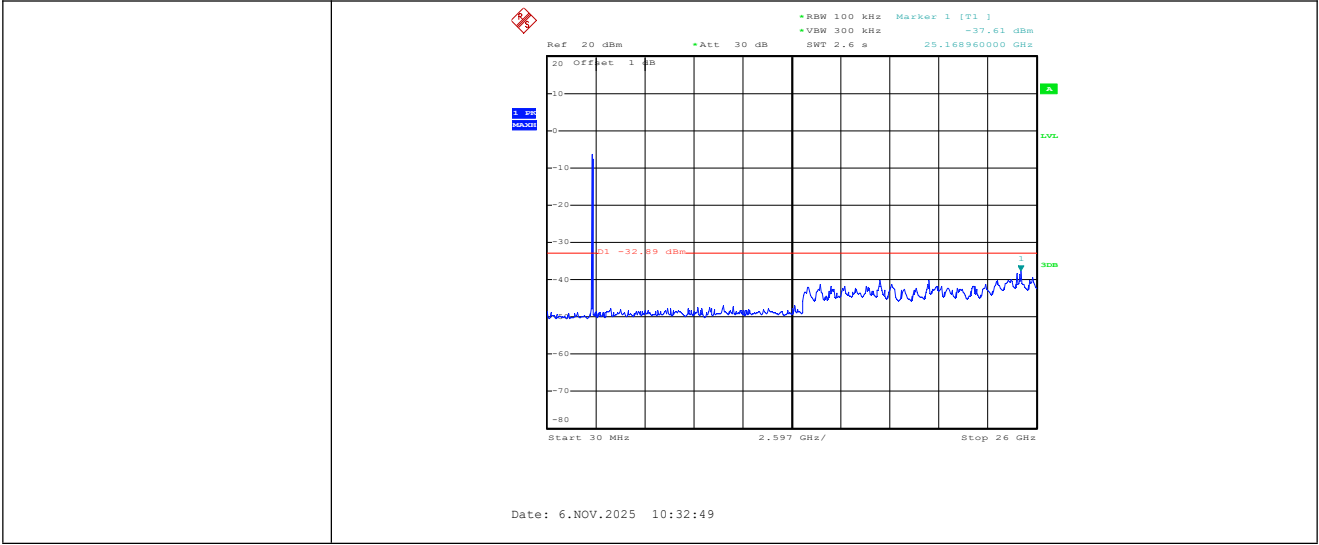
	 Date: 6.NOV.2025 10:43:59
802.11n-HT40-Low	 Date: 6.NOV.2025 10:39:04
	 Date: 6.NOV.2025 10:40:04

802.11n-HT40-Middle



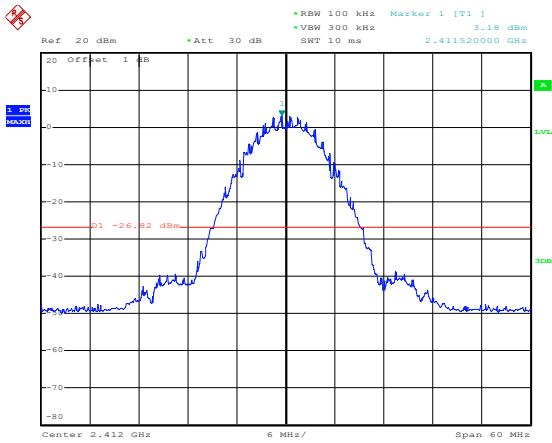
802.11n-HT40-High



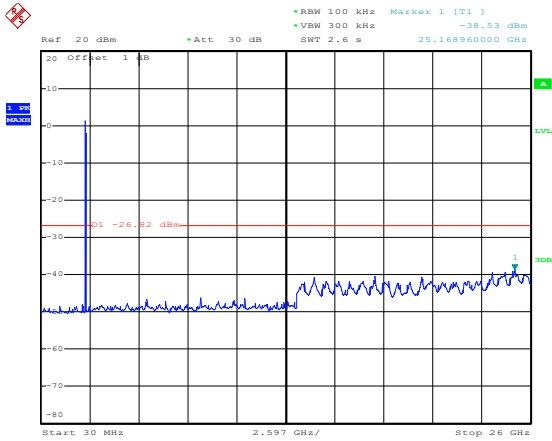


Antenna 1

802.11b-Low

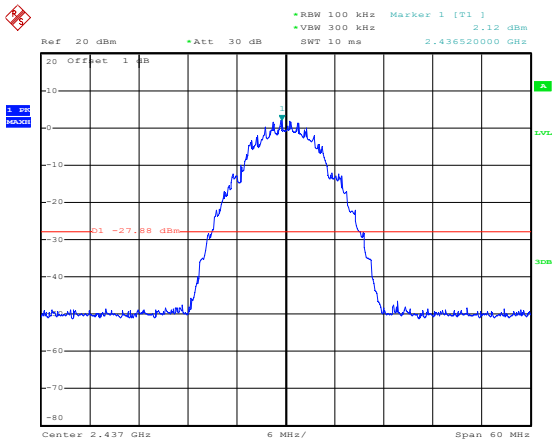


Date: 6.NOV.2025 15:19:08

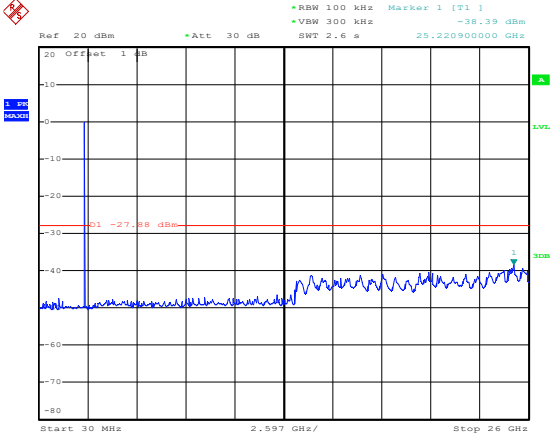
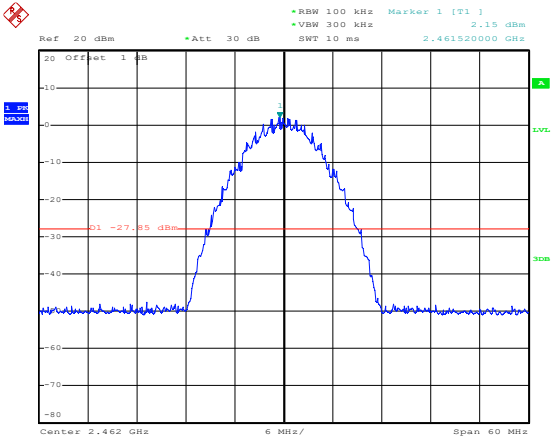
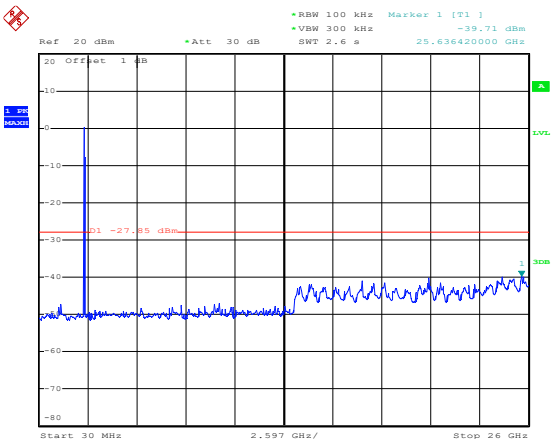


Date: 6.NOV.2025 15:20:01

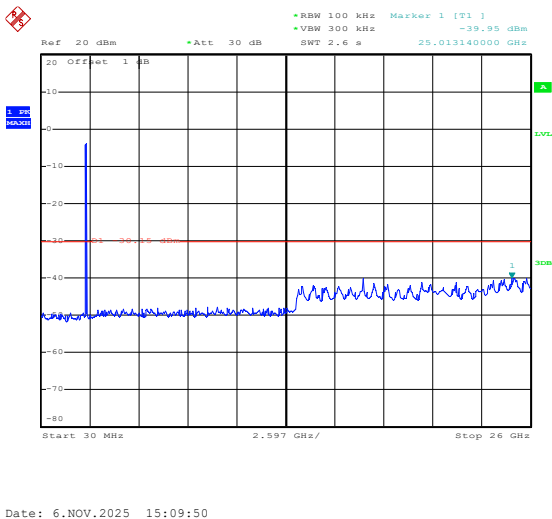
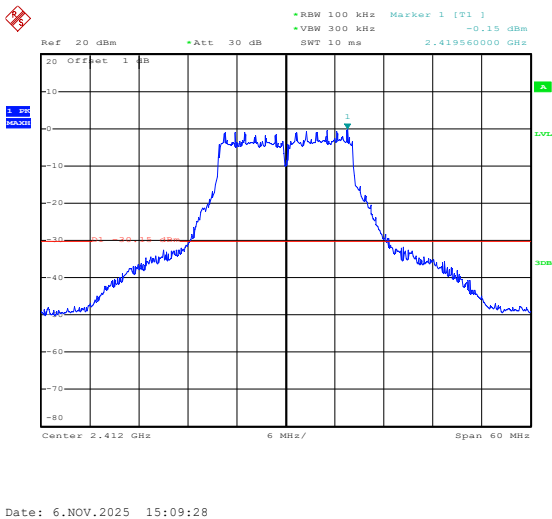
802.11b-Middle



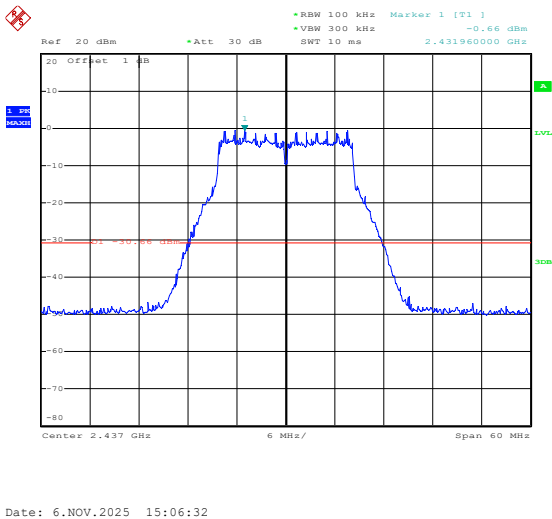
Date: 6.NOV.2025 15:20:55

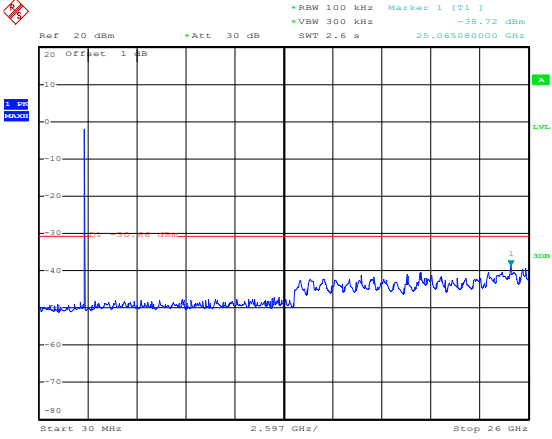
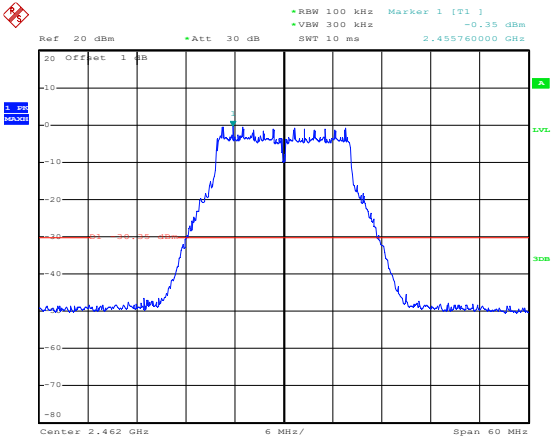
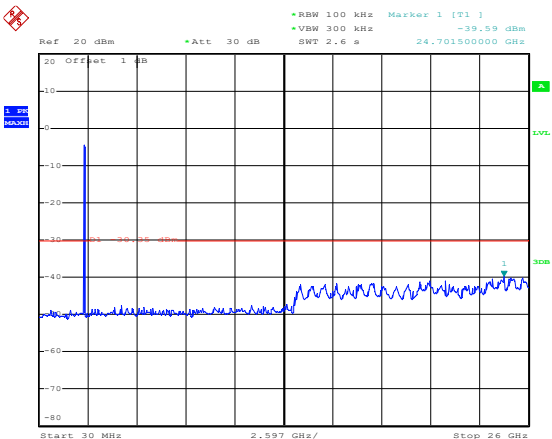
	 Date: 6.NOV.2025 15:21:48
802.11b-High	 Date: 6.NOV.2025 15:22:45
	 Date: 6.NOV.2025 15:24:02

802.11g-Low

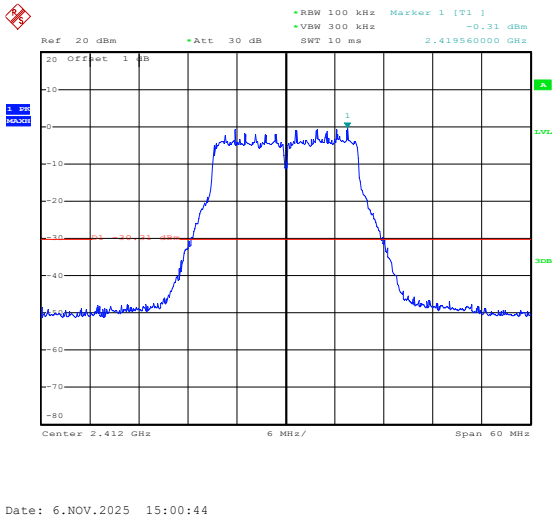


802.11g-Middle

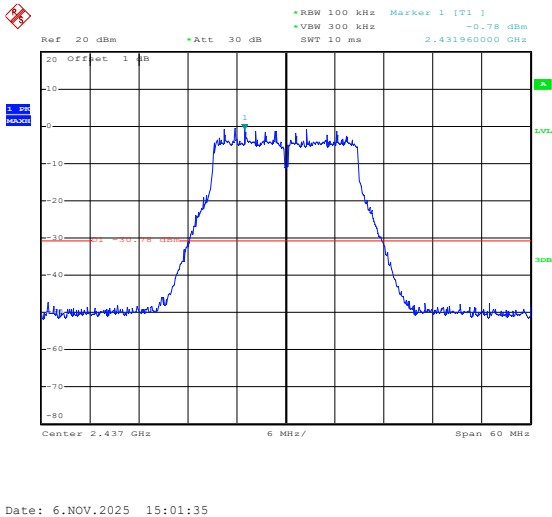


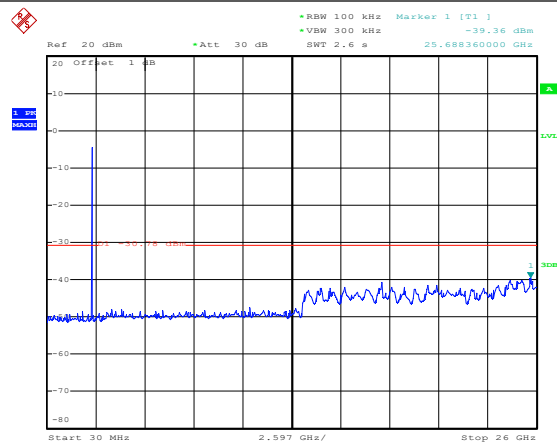
	 Date: 6.NOV.2025 15:06:57
802.11g-High	 Date: 6.NOV.2025 15:04:10
	 Date: 6.NOV.2025 15:04:36

802.11n-HT20-Low

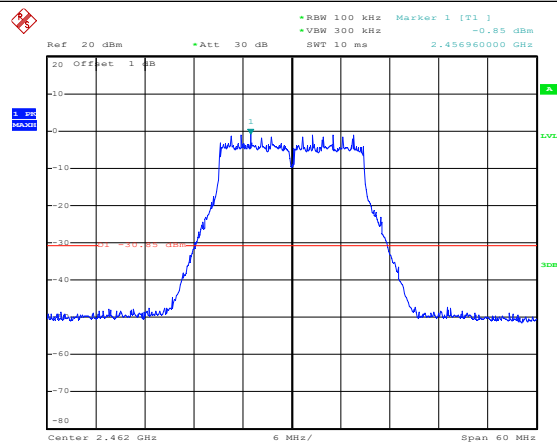


802.11n-HT20-Middle



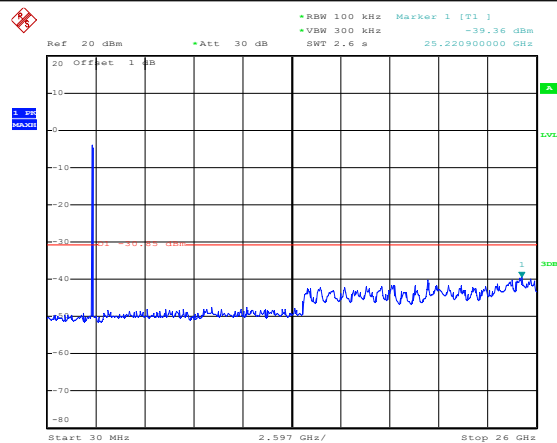


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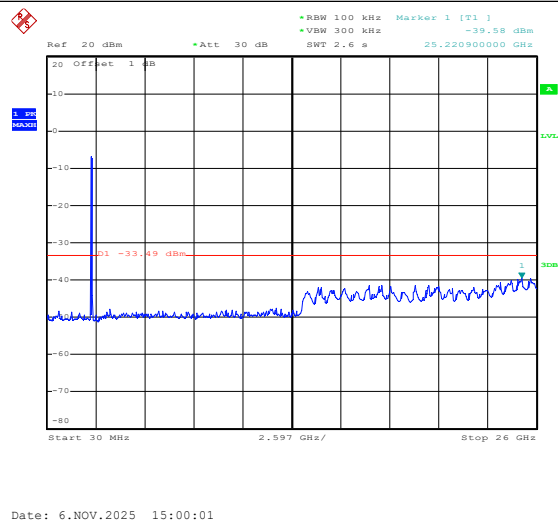
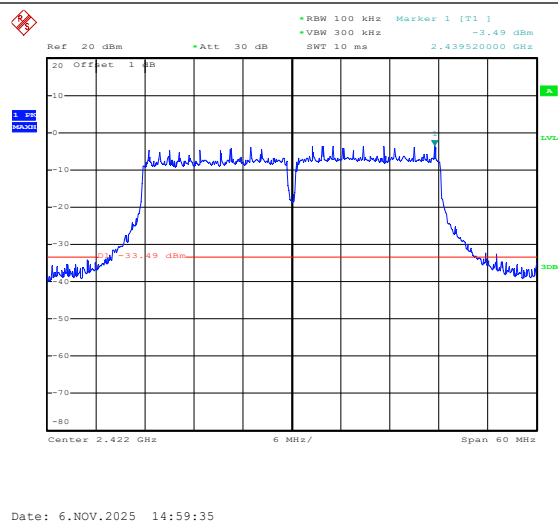
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802.11n-HT20-High

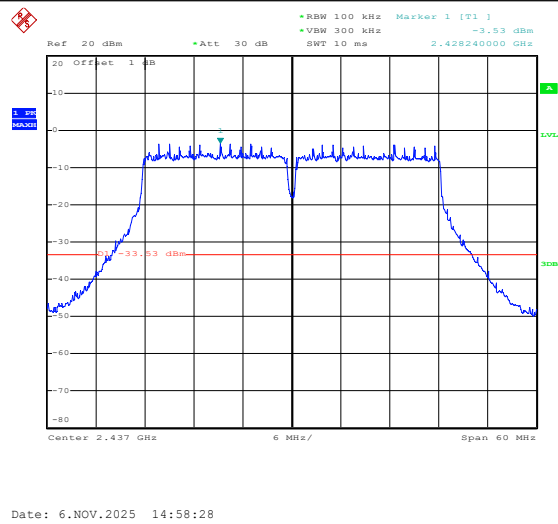


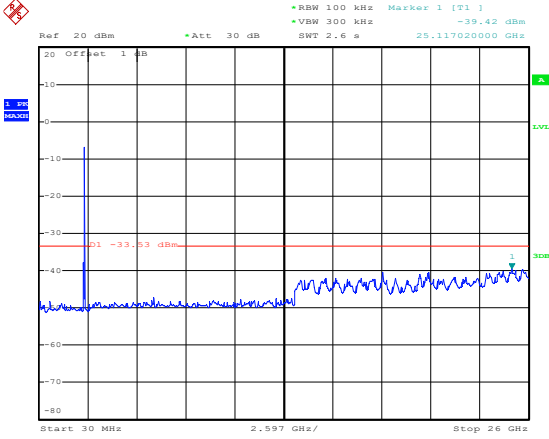
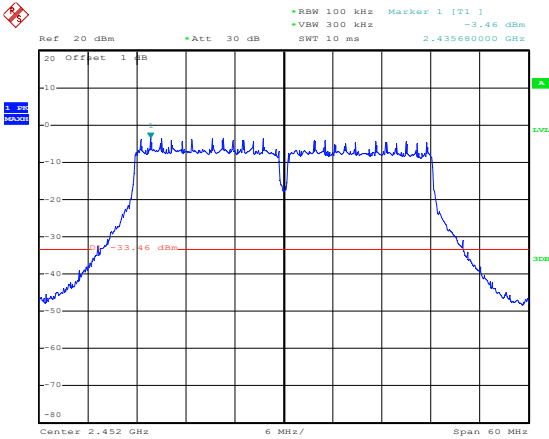
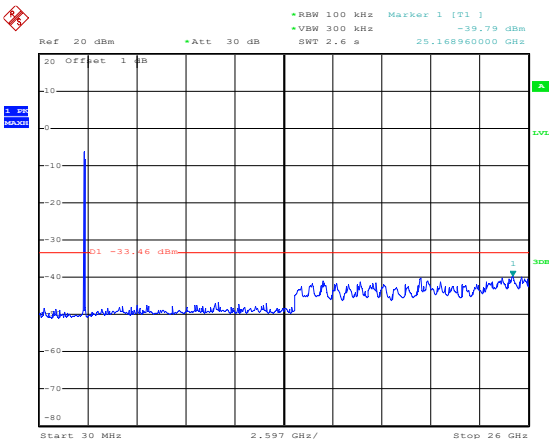
Date: 6.NOV.2025 15:02:45

802.11n-HT40-Low



802.11n-HT40-Middle



	 Date: 6.NOV.2025 14:58:59
802.11n-HT40-High	 Date: 6.NOV.2025 14:57:04
	 Date: 6.NOV.2025 14:57:41

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****