

TEST REPORT		
Report Number..... :	EP2606261F03	
Date of receipt of test item.... :	2026-07-09	
Date (s) of performance of test :	2026-07-10 to 2026-08-04	
Date of issue :	2026-08-26	
Testing Laboratory name :	Dongguan Pubiao Testing Technology Co., Ltd.	
Address :	Room 101, Building 1, No.30, Minghua Road, Shijie,Shijie Town, Dongguan,Guangdong, 523250,People's Republic of China	
Applicant's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Manufacturer's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Factory's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Standard(s)..... :	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	
Test item description :	Mini Sticker Printer, AI Voice Sticker Printer	
Trade Mark..... :	N/A	
Model/Type reference :	D1, D2, MK1, MK2, GT1, GT2, SK1, SK2, GM1, GM2	
FCC ID..... :	2AWYK-D1	
Summary of Test Results :	Pass	
Test Report Form No. :	47 CFR Parts 15 C	
Master TRF :	Dated 2025-11	
Prepared by (+signature) :	Dora Ning	
Approved by (+signature) :	Eric Liu	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
General disclaimer: This report shall not be reproduced except in full, without the written approval of Dongguan Pubiao Testing Technology Co., Ltd. The test results in the report only apply to the tested sample.		

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Modified Information

Report No.	Revision Data	Summary
EP2606261F03	2026-08-26	Original Version

1 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product:	Mini Sticker Printer, AI Voice Sticker Printer
Model Number:	D1, D2, MK1, MK2, GT1, GT2, SK1, SK2, GM1, GM2
Difference:	All models are identical to each other except for product name and model name. Here we choose D1 as the test EUT.
IEEE 802.11 WLAN Mode Supported:	☒ 802.11b ☒ 802.11g ☒ 802.11n(20MHz channel bandwidth) ☐ 802.11n(40MHz channel bandwidth)
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Operating Frequency Range:	☒ 2412-2462MHz for 802.11b/g/n(HT20); ☐ 2422-2452MHz for 802.11n(HT40);
Number of Channels:	☒ 11 channels for 802.11b/g/n(HT20); ☐ 7 Channels for 802.11n(HT40);
Antenna Type:	PCB Antenna
Antenna Gain:	2.46 dBi
Power Supply:	DC 3.7V from Battery DC 5V from USB

Note: for more details, please refer to the User's manual of the EUT.

2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d) 15.209	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS	
15.247(d) 15.209 15.205	Radiated Spurious Emission	PASS	
15.207	Conducted Emission Test	N/A	
15.203	Antenna Application	PASS	
	NOTE1:N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.		

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AWYK-D1 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
FCC 47 CFR Part 2, Subpart J; FCC 47 CFR Part 15, Subpart C;
FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

3.2 MEASUREMENT EQUIPMENT USED

3.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
EMI Test Receiver	ROHDE&SCHWARZ	ESCI3	101315	2026-05-18	1year
LISN	ROHDE&SCHWARZ	ENV216	102331	2026-05-18	1year
Test Cable	HUBER+SUHNER	RG 223/U	1-1#	2026-05-18	1year
10 db attenuator	N/A	DC-6G-10DB-N-JK	/	2026-05-18	1year
CE Testing software	EZ	EZ-EMC	/	/	/

3.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
EMI Test Receiver	ROHDE& SCHWARZ	ESPI3	101918	2026-05-18	1year
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50531325	2026-05-18	1year
Preamplifier	ROHDE& SCHWARZ	8447E	2945A02763	2026-05-18	1year
Preamplifier	BOSST	BPA-001018G40B	8400019	2026-05-18	1year
Preamplifier	RF system	BPA-018040G45B	26031901	2026-04-22	1year
Bilog Antenna	SCHAFFNER	CBL6111C	2798	2026-05-23	3years
Loop Antenna	Schwarzbeck	FMZB1519-60 D	1519-60 D-232	2026-04-21	3years
Horn Antenna	antsym	AS-DAH-L1000H18000G16/S-NK	antsym	2026-05-18	3years
Horn Antenna	Schwarzbeck	BBHA 9170	D143	2026-04-21	3years
The RF cable	HUBER+SUHNER	RG 223/U	1-3#	2026-05-18	1year
The RF cable	HUBER+SUHNER	RG 223/U	1-4#	2026-05-18	1year
The RF cable	HUBER+SUHNER	RG 223/U	1-5#	2026-05-18	1year
The RF cable	TIMES Microwave Systems	HF290-NMNM-14.00M	844011-0001	2026-04-13	1year

3.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Vector Signal Generater	Agilen	N5182A	MY50142585	2026-05-18	1year
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	132488-Sz	2026-05-18	1year
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50531325	2026-05-18	1year
DC Power Supper	KEYSIGHT	E3642A	MY41002348	2026-05-18	1year
RF control box	CDKMV	MW100-RFCB	MW210914PB	2026-01-09	1year
Power detection box	CDKMV	MW101-PSB	MW210914PB-22	2026-01-09	1year
RF Testing software	MW	MTS 8310	/	/	/

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (☒802.11b:1 Mbps; ☒802.11g: 6 Mbps; ☒802.11n(HT20): MCS0; ☐802.11n(HT40): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒Frequency and Channel list for 802.11b/g/n (HT20):

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

☐Frequency and Channel list for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

☒Test Frequency and Channel for 802.11b/g/n (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

☐Test Frequency and channel for 802.11n (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

Site Description		
Name of Firm	:	Dongguan Pubiao Testing Technology Co., Ltd.
Site Location	:	Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, China.
FCC Designation Number	:	CN1459
Test Firm Registration Number:		782062
FCC Test Firm Registration Number	:	7670.01

4.2 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

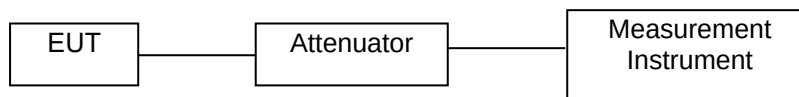
Parameter	Uncertainty
Radio Frequency	±0.03ppm
Maximum Peak Output Power Test	±1.19dB
Conducted Emissions Test	3.19dB
Radiated Emission(30MHz~1GHz)	4.84dB (Below 1GHz)
	3.90dB (Above 1GHz)
Occupied Bandwidth Test	±3.5%
Band Edge Test	±2.3%
All emission, radiated	±1.2%
Antenna Port Emission	±3dB
Temperature	±3.2%
Humidity	±2.5%

Measurement Uncertainty for a level of Confidence of 95%

5 SETUP OF EQUIPMENT UNDER TEST

5.1 RADIO FREQUENCY TEST SETUP 1

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



5.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 32.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

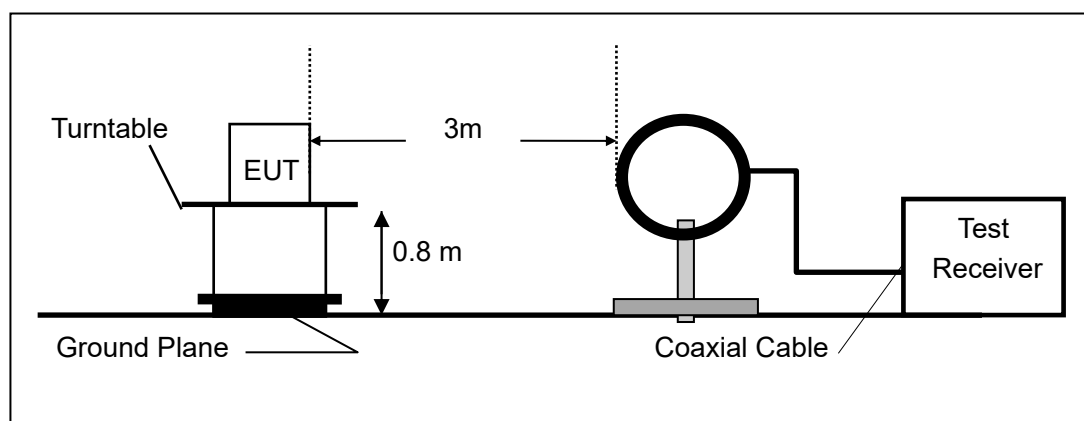
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

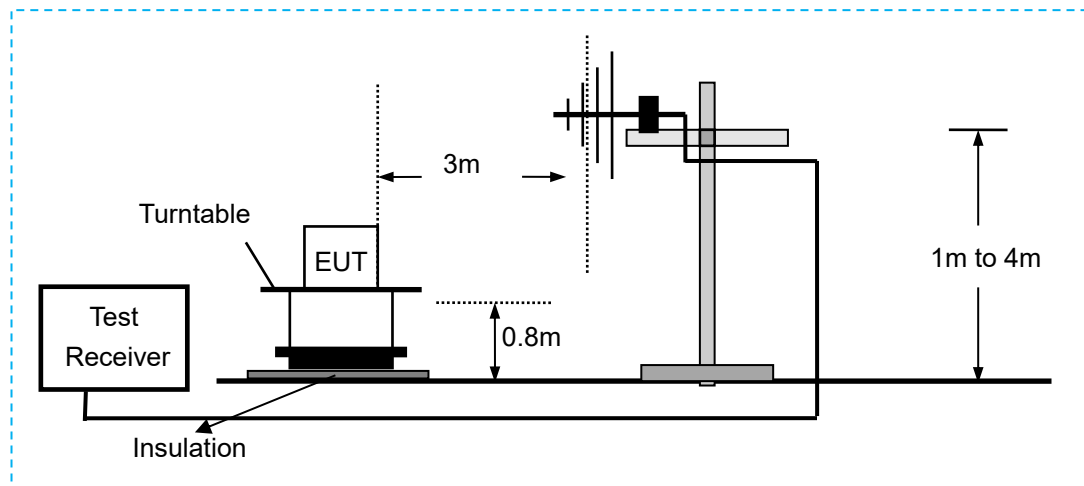
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

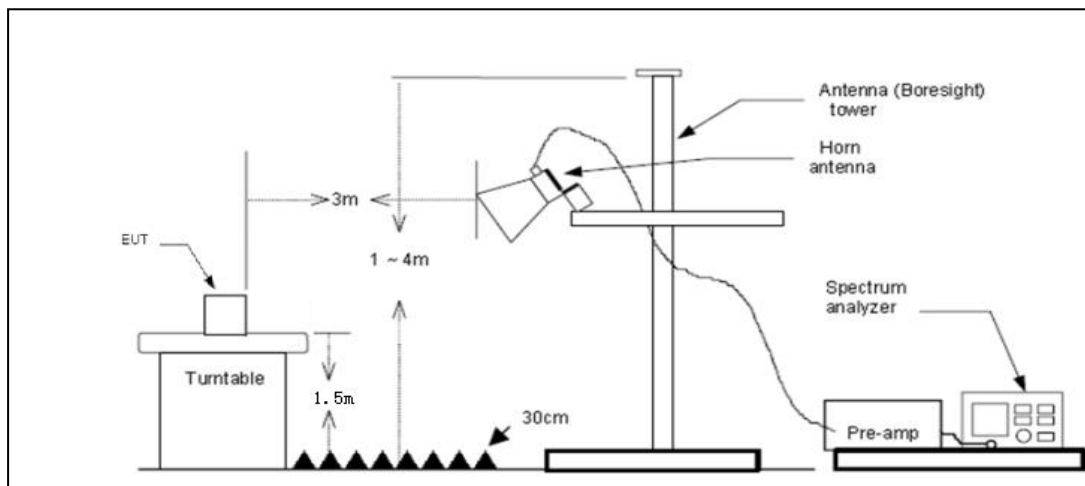
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

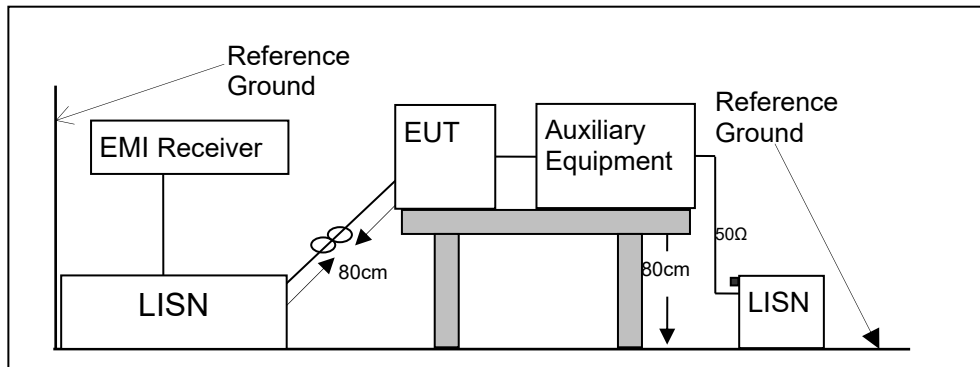


5.3 CONDUCTED EMISSION TEST SETUP

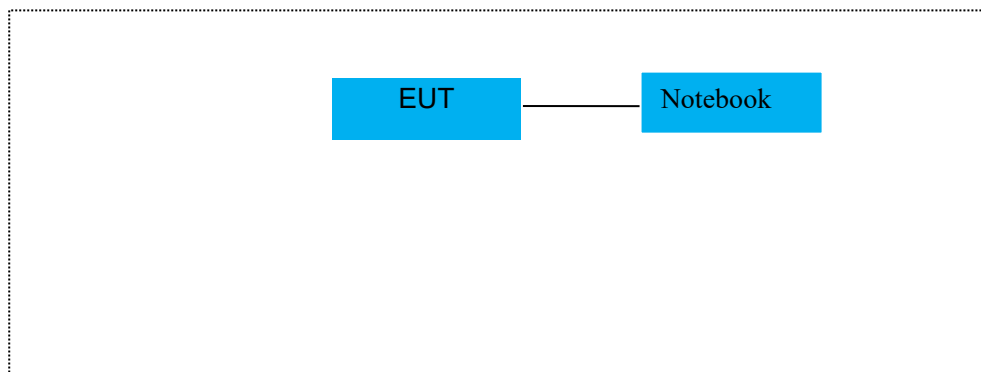
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



5.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



5.5 SUPPORT EQUIPMENT

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

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	HUAWEI	MDG-16	2HGGB23A12802356

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Unless otherwise denoted as EUT in 『Remark』 column , device(s) used in tested system is a support equipment

6 TEST REQUIREMENTS

6.1 DTS (6DB) BANDWIDTH

6.1.1 Applicable Standard

According to FCC Part15.247 (a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

6.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

6.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

6.1.4 Test Procedure

The EUT was operating in IEEE 802.11b/g/n mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

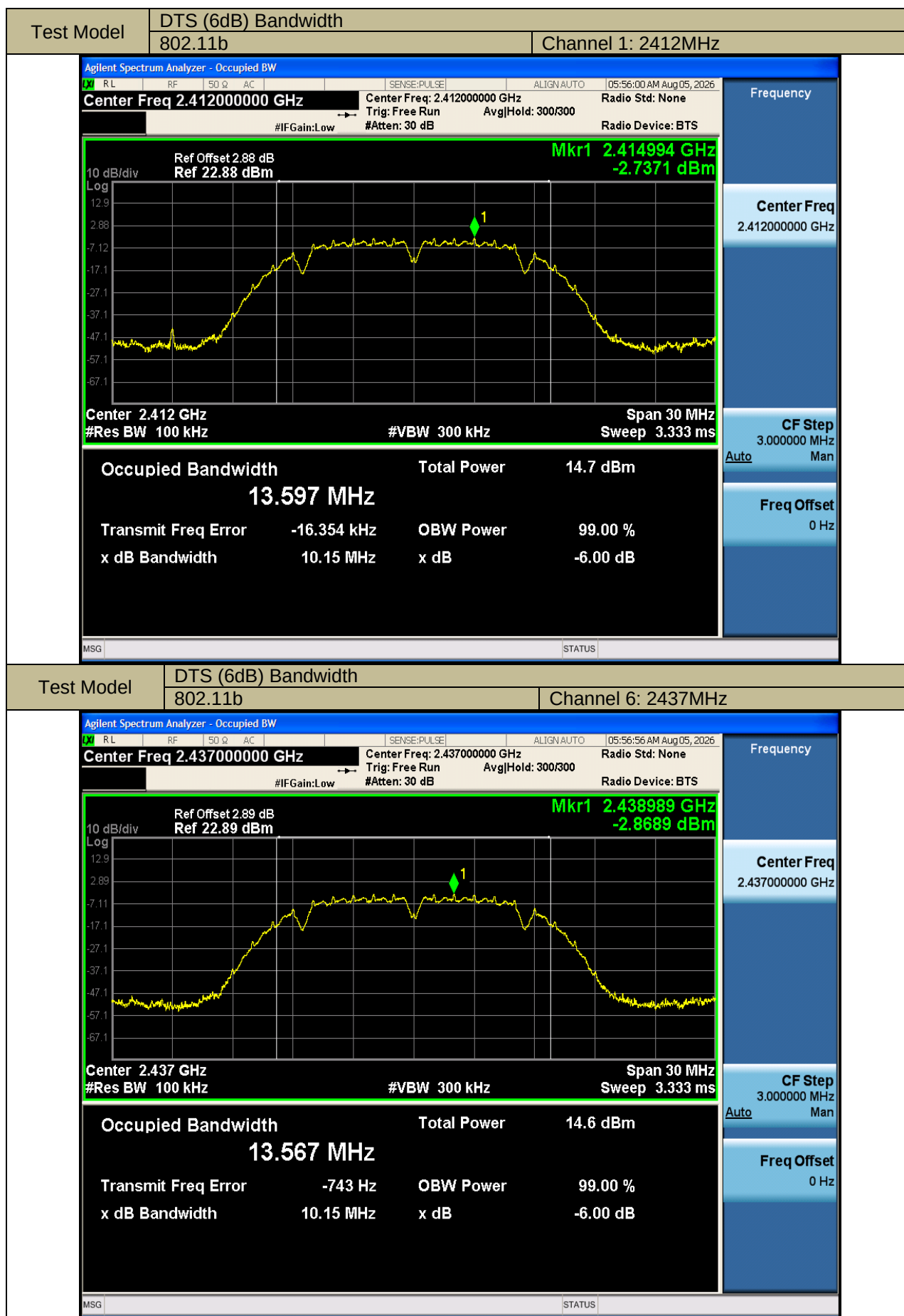
Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measure and record the results in the test report.

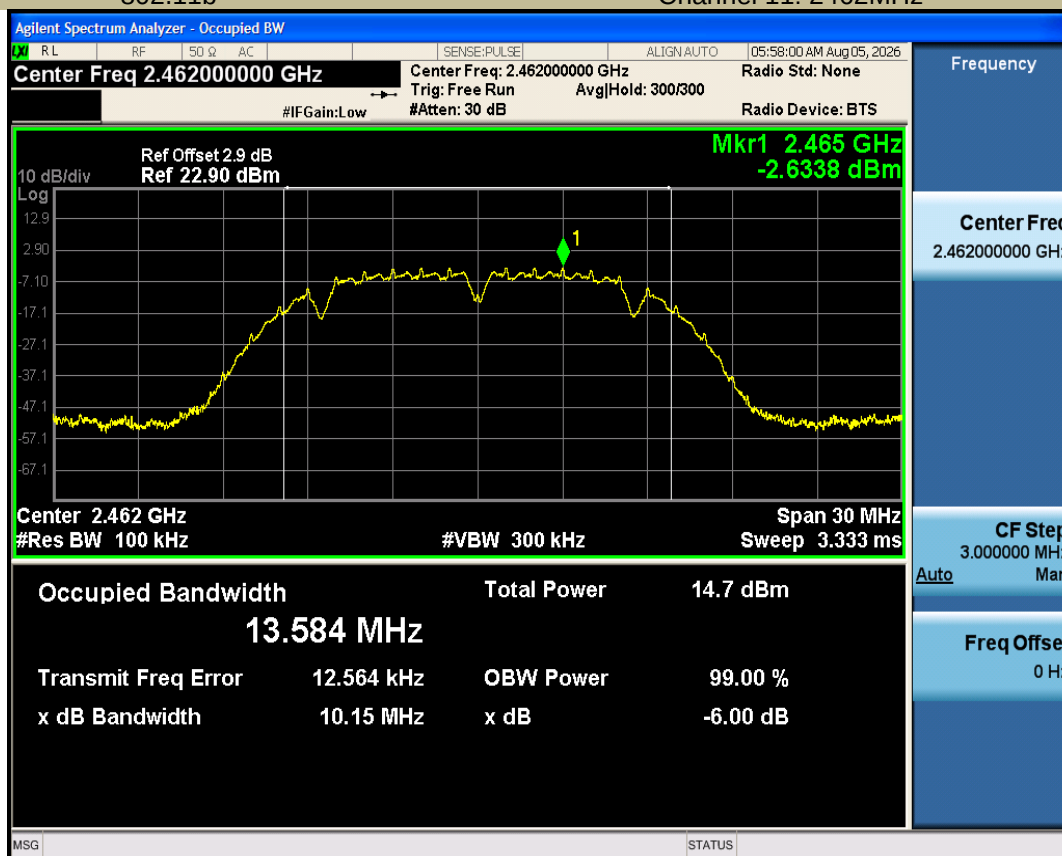
6.1.5 Test Results

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

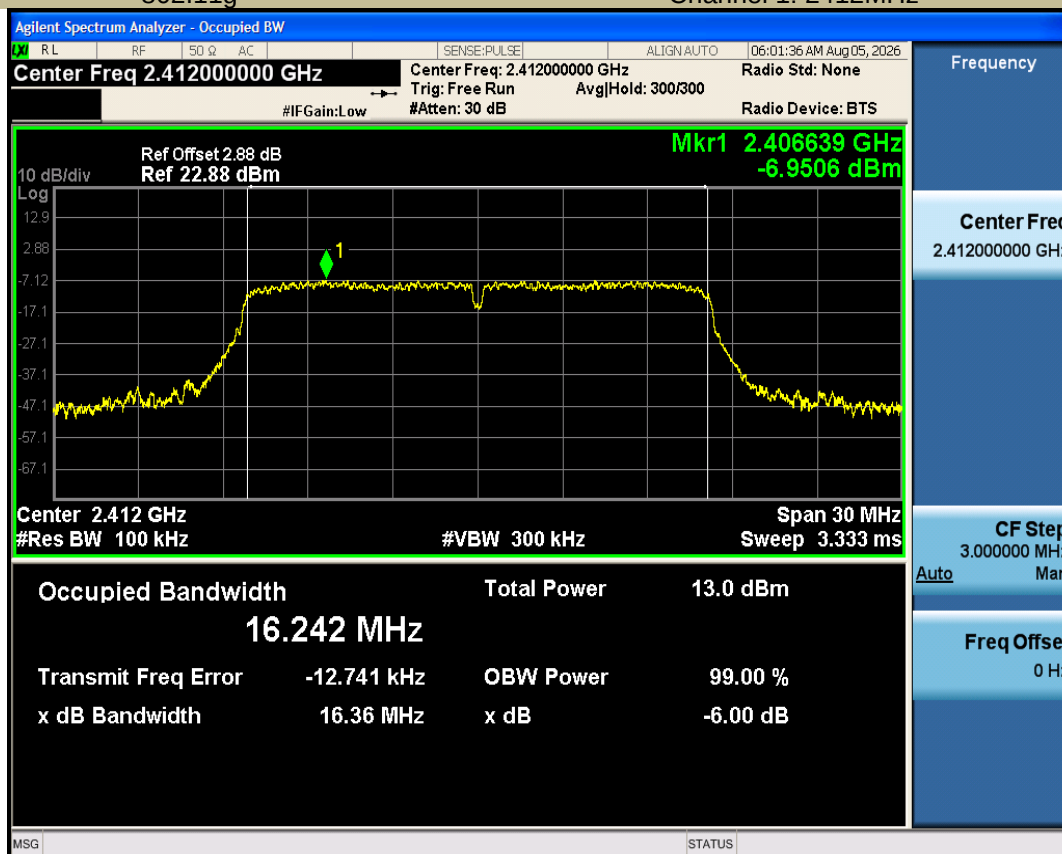
Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (MHz)	Limit (kHz)	Verdict
802.11b	1	2412	10.15	>500	PASS
	6	2437	10.15	>500	PASS
	11	2462	10.15	>500	PASS
802.11g	1	2412	16.36	>500	PASS
	6	2437	16.36	>500	PASS
	11	2462	16.35	>500	PASS
802.11n (HT20)	1	2412	16.35	>500	PASS
	6	2437	16.36	>500	PASS
	11	2462	16.37	>500	PASS



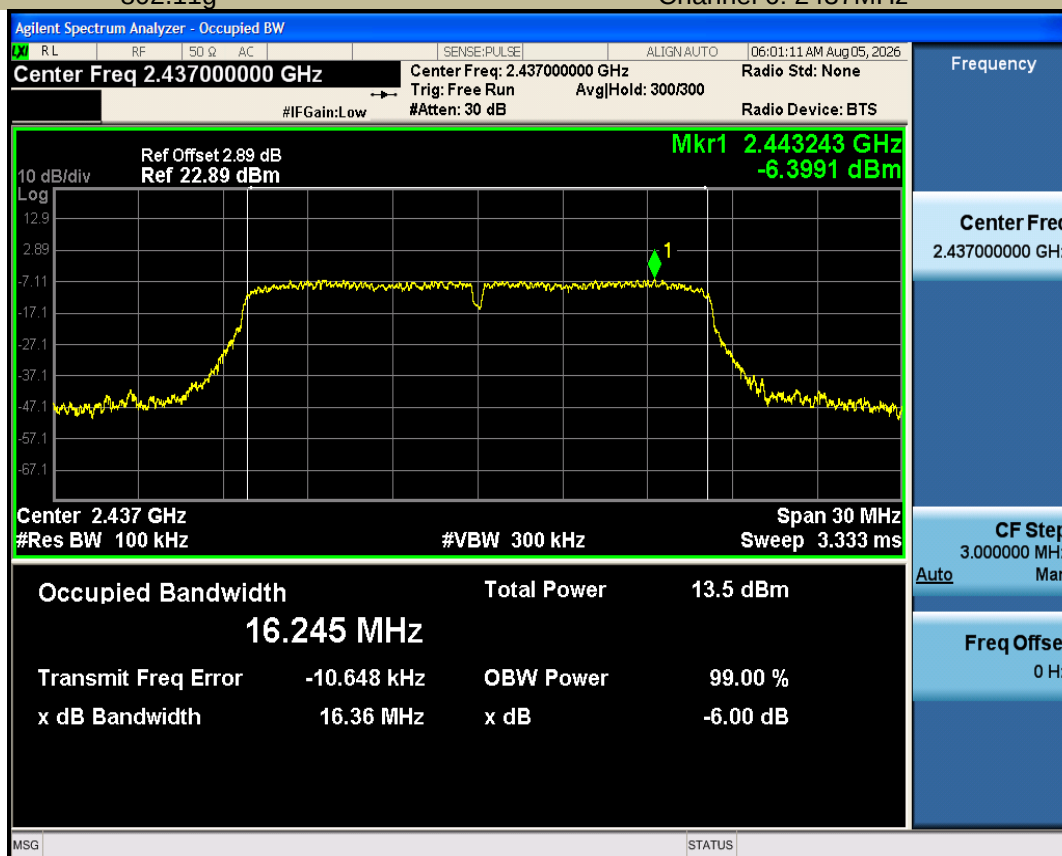
Test Model DTS (6dB) Bandwidth 802.11b Channel 11: 2462MHz



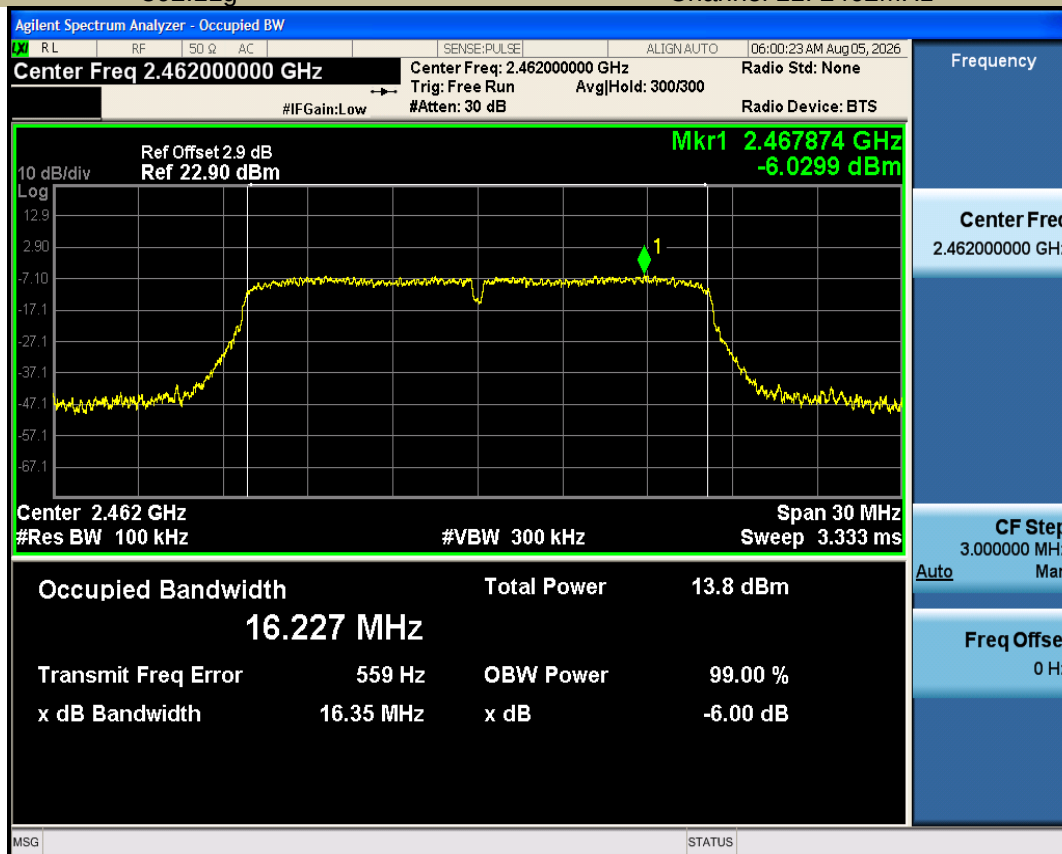
Test Model DTS (6dB) Bandwidth 802.11g Channel 1: 2412MHz



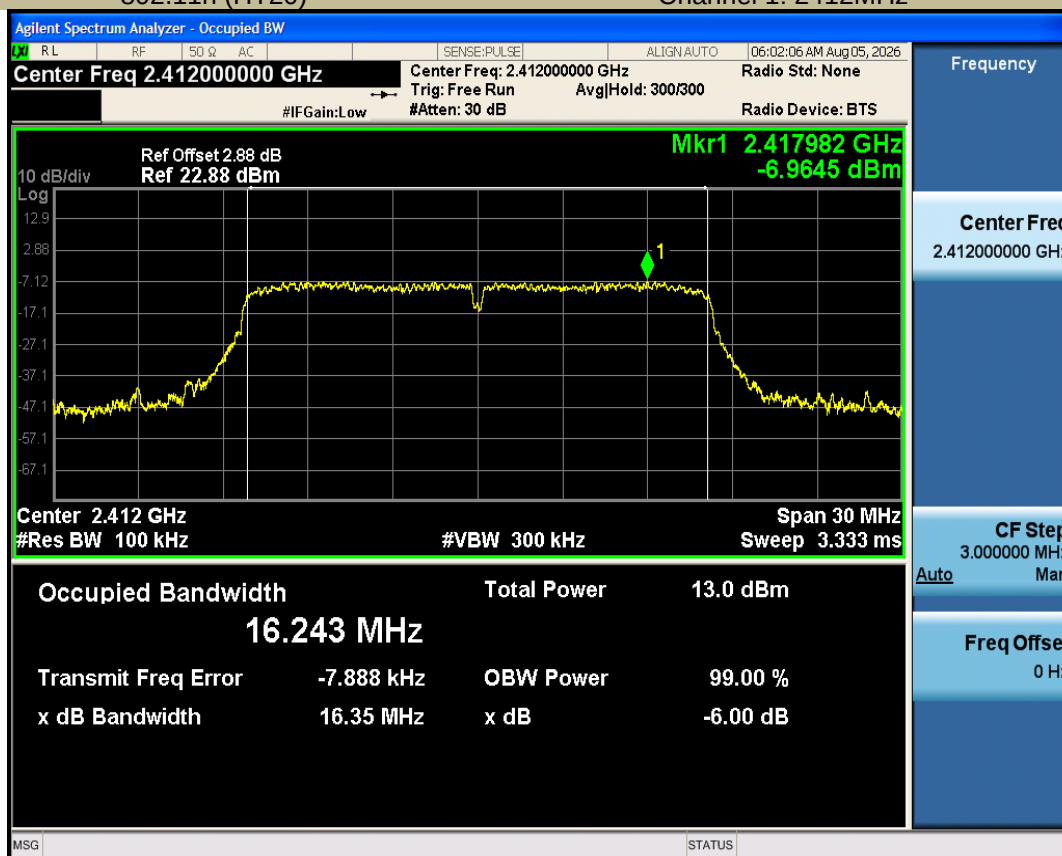
Test Model DTS (6dB) Bandwidth
802.11g Channel 6: 2437MHz



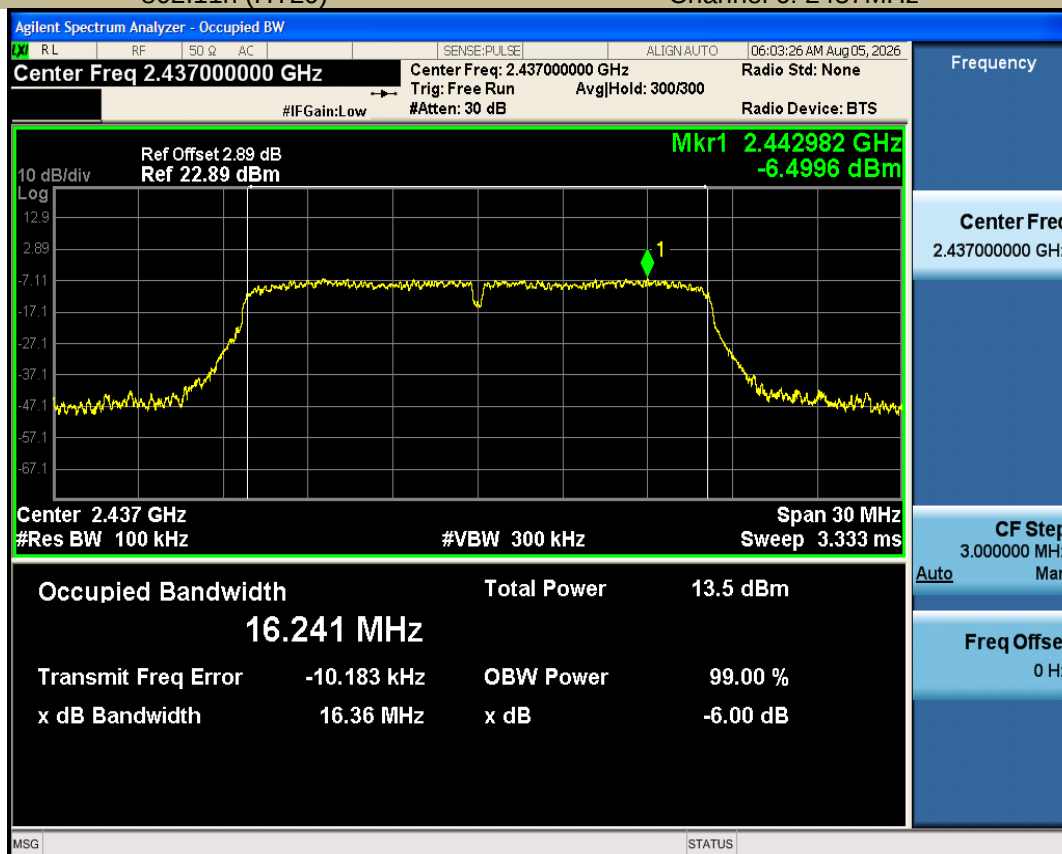
Test Model DTS (6dB) Bandwidth
802.11g Channel 11: 2462MHz



Test Model DTS (6dB) Bandwidth
802.11n (HT20) Channel 1: 2412MHz



Test Model DTS (6dB) Bandwidth
802.11n (HT20) Channel 6: 2437MHz



Test Model

DTS (6dB) Bandwidth
802.11n (HT20)

Channel 11: 2462MHz



6.2 MAXIMUM CONDUCTED OUTPUT POWER

6.2.1 Applicable Standard

According to FCC Part15.247 (b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

6.2.2 Conformance Limit

The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

6.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

6.2.4 Test Procedure

■ According to FCC Part15.247(b)(3)

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum output power setting and enable the EUT transmit continuously.

Measure the conducted output power with cable loss and record the results in the test report.

Measure and record the results in the report.

■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: If antenna Gain exceeds 6 dBi, then Output power Limit=30-(Gain - 6)

6.2.5 Test Results

Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
802.11b	1	2412	5.82	30	PASS
	6	2437	5.63	30	PASS
	11	2462	5.80	30	PASS
802.11g	1	2412	5.88	30	PASS
	6	2437	6.34	30	PASS
	11	2462	6.50	30	PASS
802.11n (HT20)	1	2412	4.87	30	PASS
	6	2437	5.36	30	PASS
	11	2462	5.62	30	PASS

6.3 MAXIMUM POWER SPECTRAL DENSITY

6.3.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

6.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

6.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

6.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to >1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz<RBW<100kHz

Set the VBW >[3*RBW].

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat

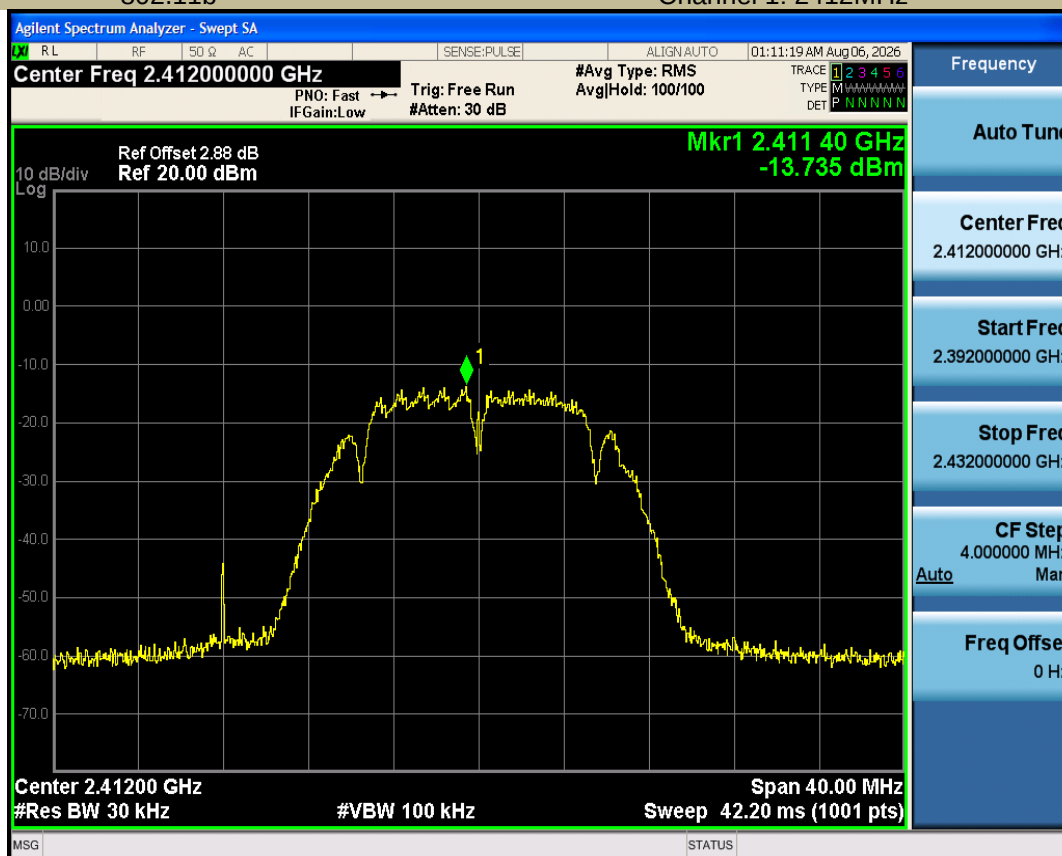
Note: If antenna Gain exceeds 6 dBi, then PSD Limit=8-(Gain- 6)

6.3.5 Test Results

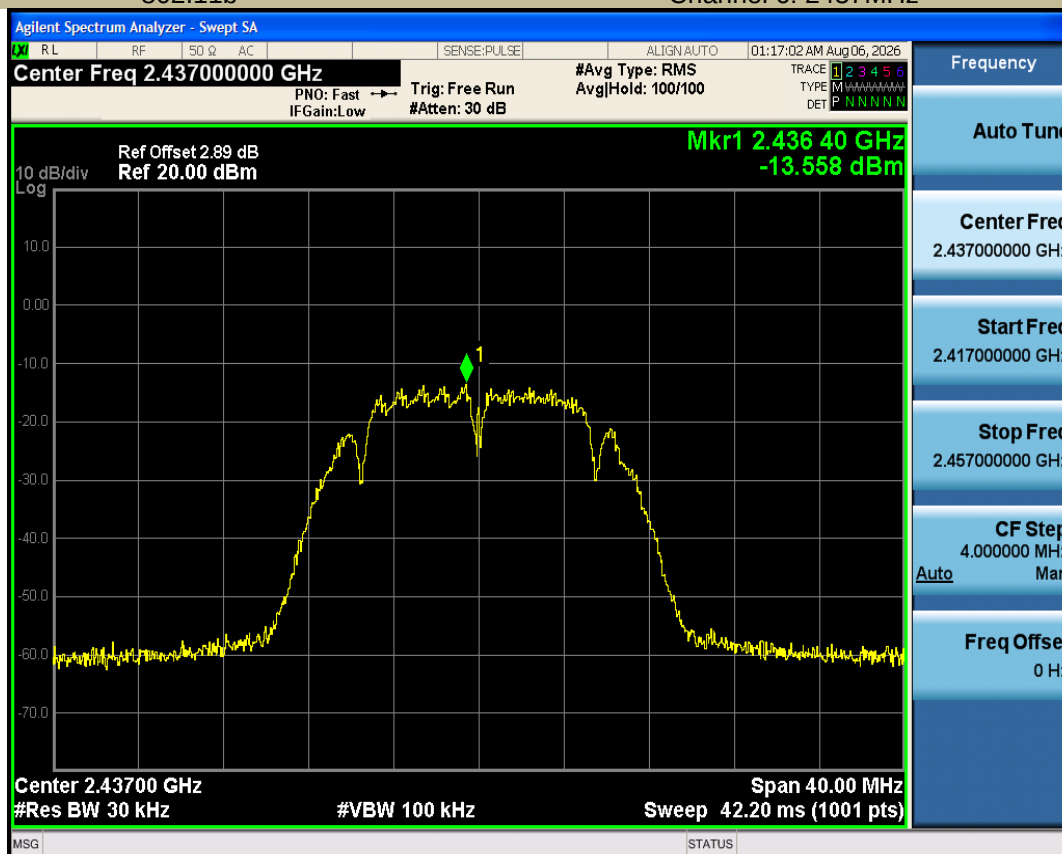
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	1	2412	-23.74	8	PASS
	6	2437	-23.56	8	PASS
	11	2462	-23.31	8	PASS
802.11g	1	2412	-29.25	8	PASS
	6	2437	-28.75	8	PASS
	11	2462	-29.01	8	PASS
802.11n (HT20)	1	2412	-29.38	8	PASS
	6	2437	-28.97	8	PASS
	11	2462	-28.27	8	PASS

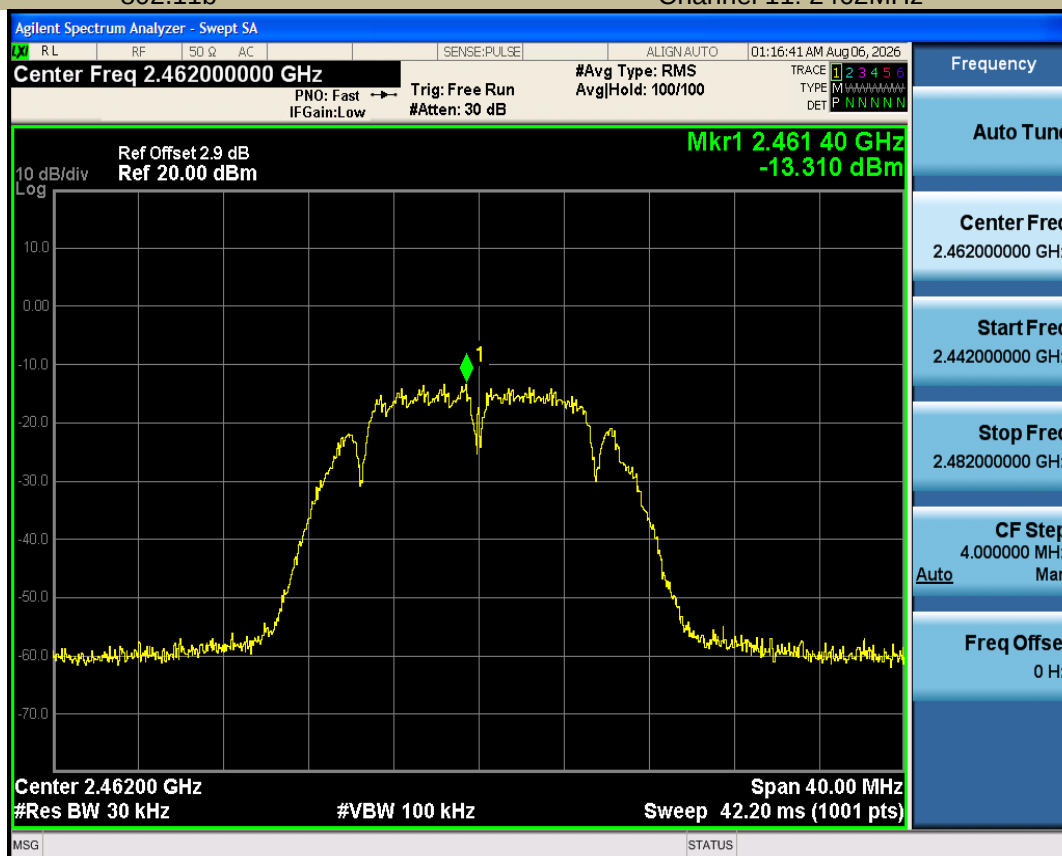
Test Model Power Spectral Density
802.11b Channel 1: 2412MHz



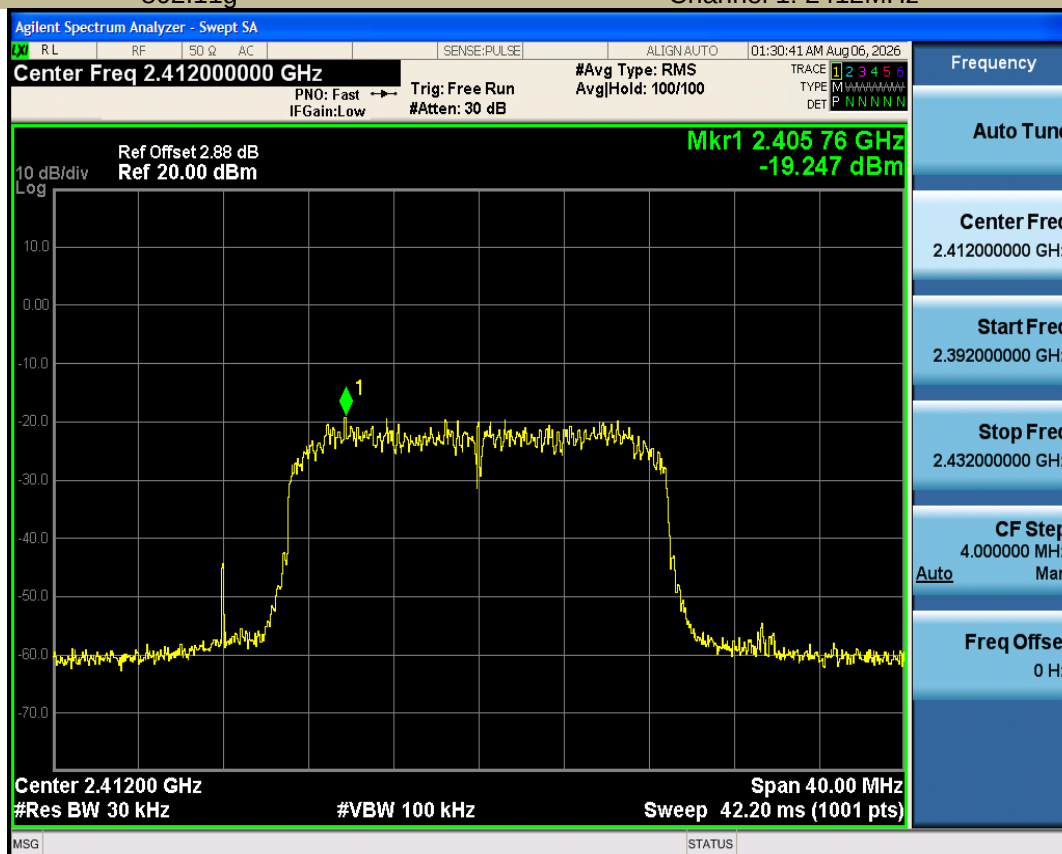
Test Model Power Spectral Density
802.11b Channel 6: 2437MHz



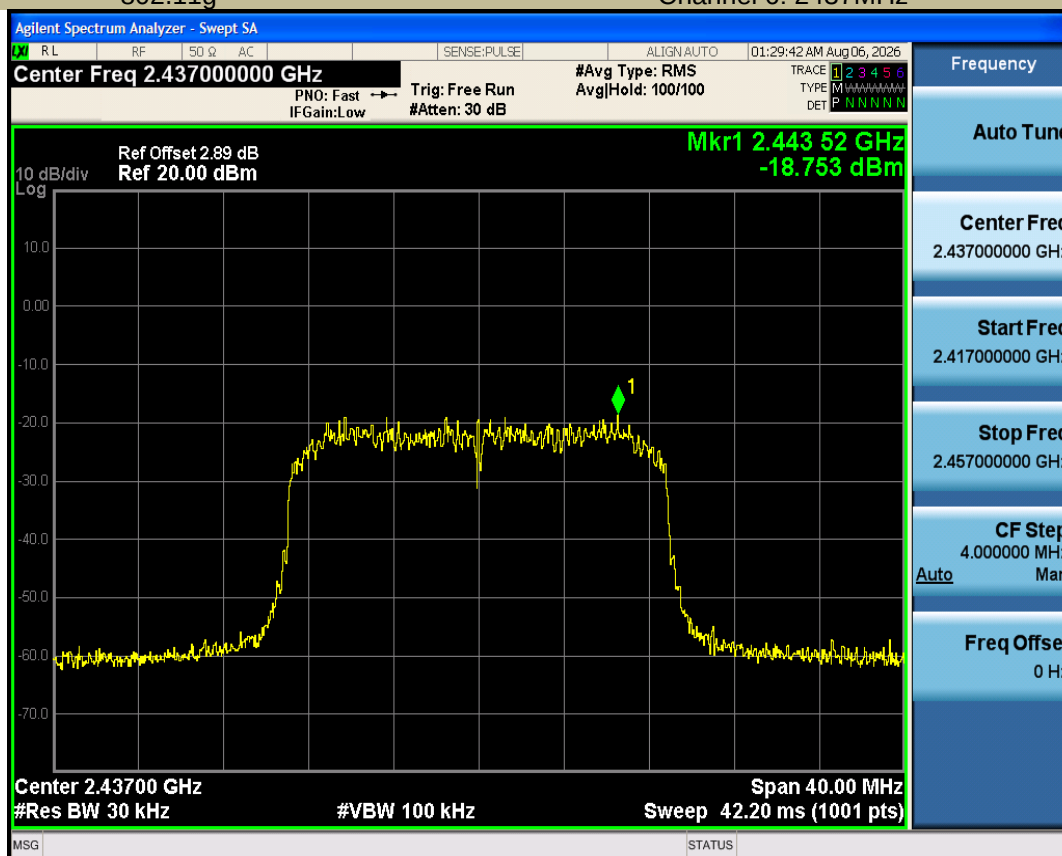
Test Model Power Spectral Density
802.11b Channel 11: 2462MHz



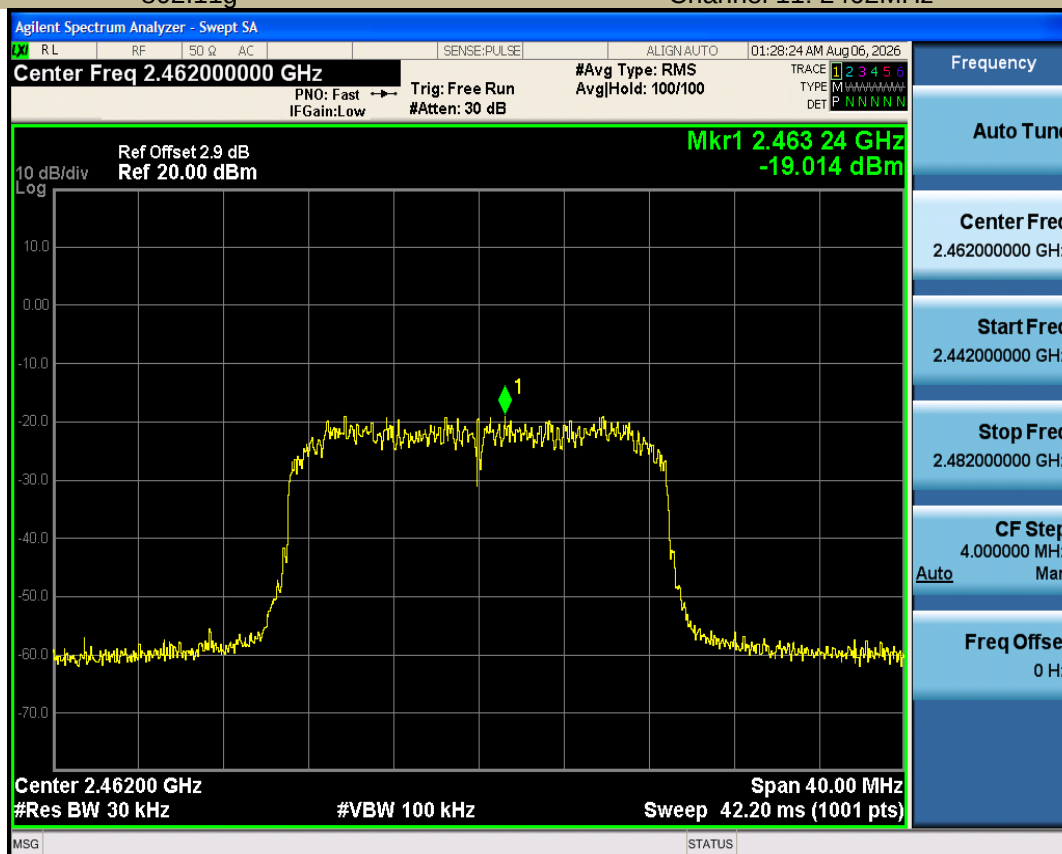
Test Model Power Spectral Density
802.11g Channel 1: 2412MHz



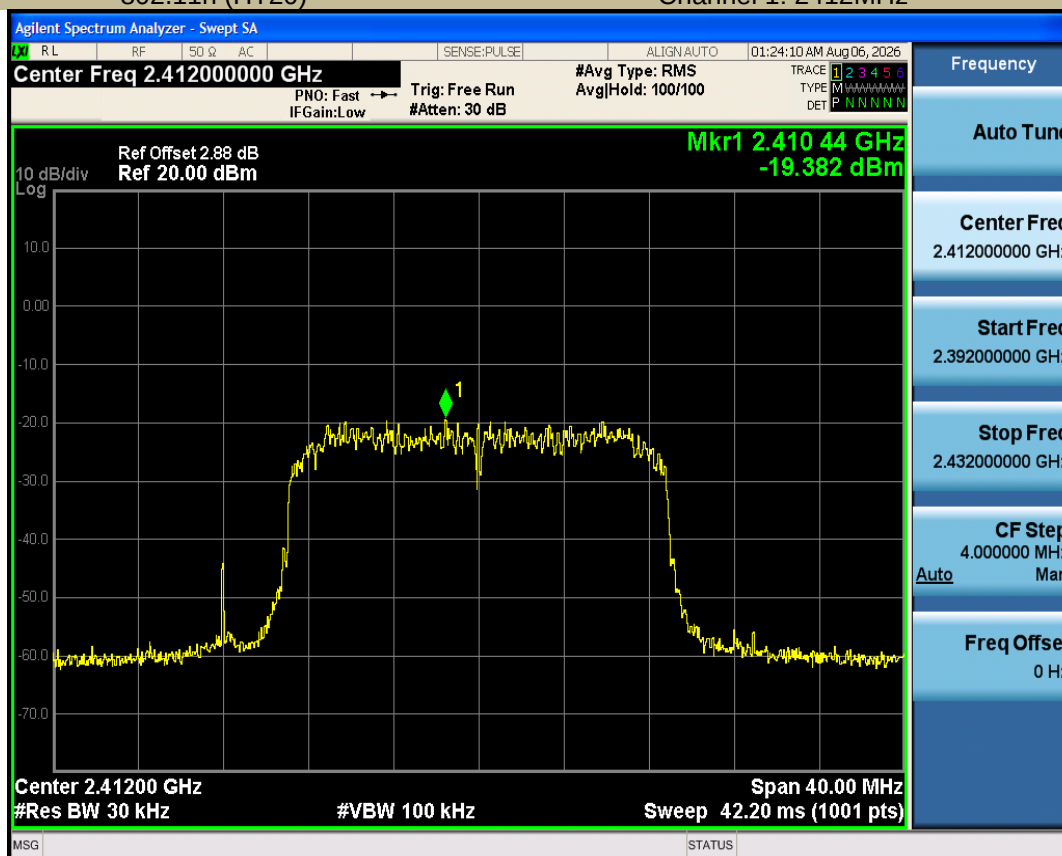
Test Model Power Spectral Density
802.11g Channel 6: 2437MHz



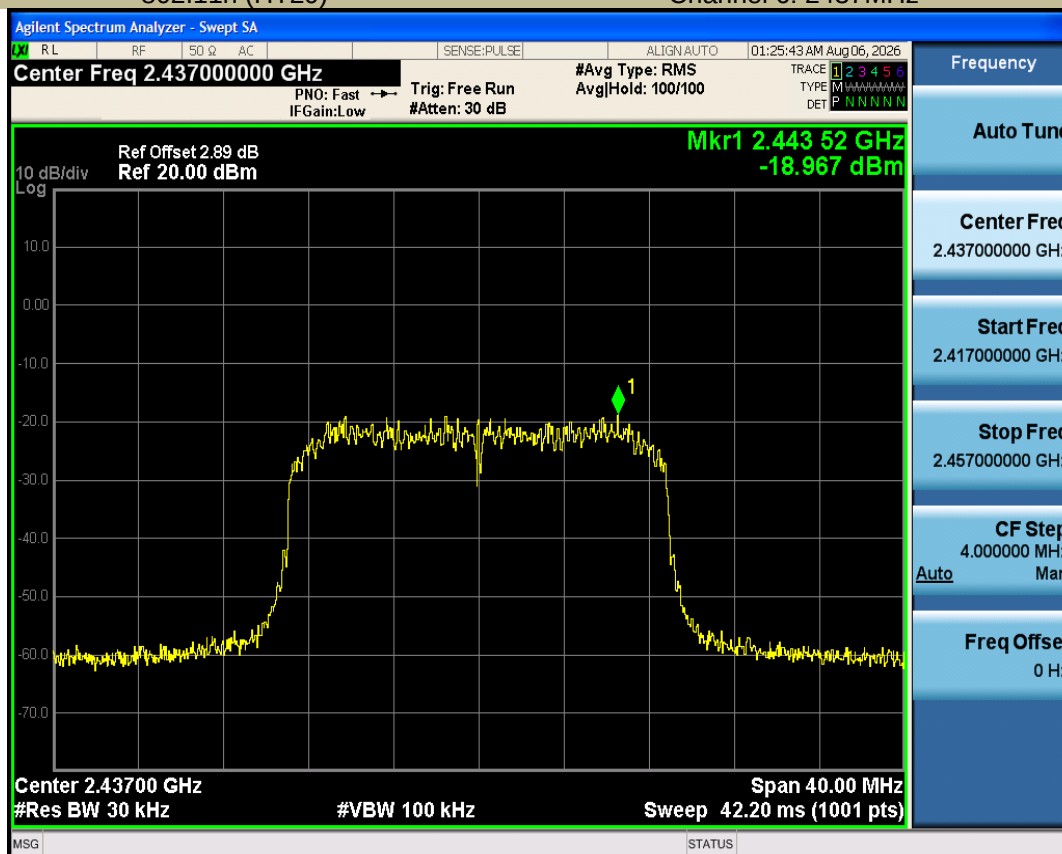
Test Model Power Spectral Density
802.11g Channel 11: 2462MHz



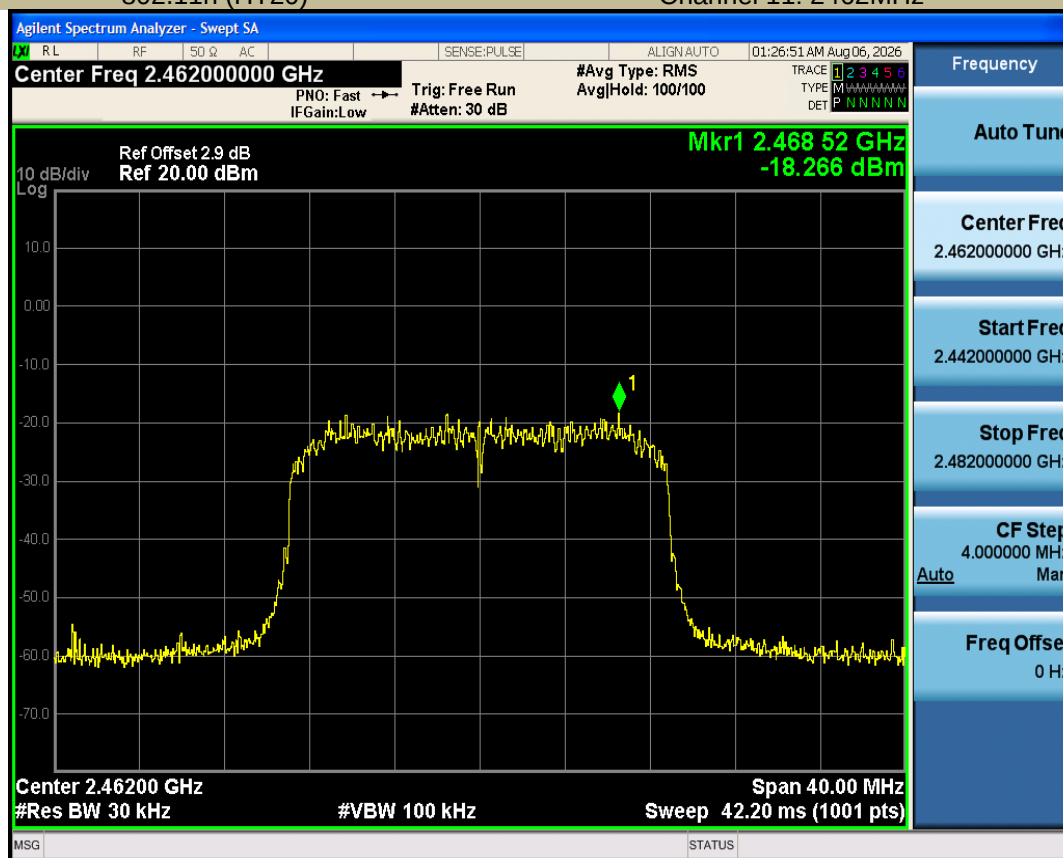
Test Model Power Spectral Density
802.11n (HT20) Channel 1: 2412MHz



Test Model Power Spectral Density
802.11n (HT20) Channel 6: 2437MHz



Test Model Power Spectral Density
802.11n (HT20) Channel 11: 2462MHz



6.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

6.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

6.4.2 Conformance Limit

According to FCC Part 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.

6.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

6.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

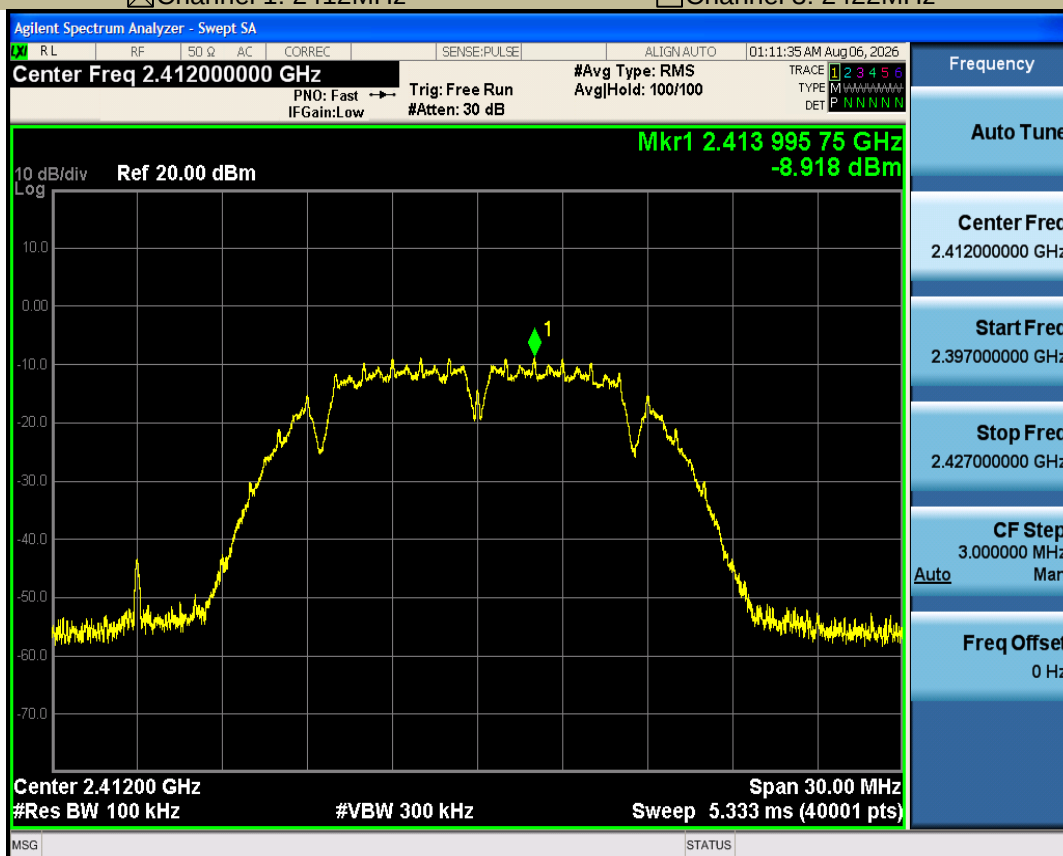
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

6.4.5 Test Results

PSD(Power Spectral Density) RBW=100kHz

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

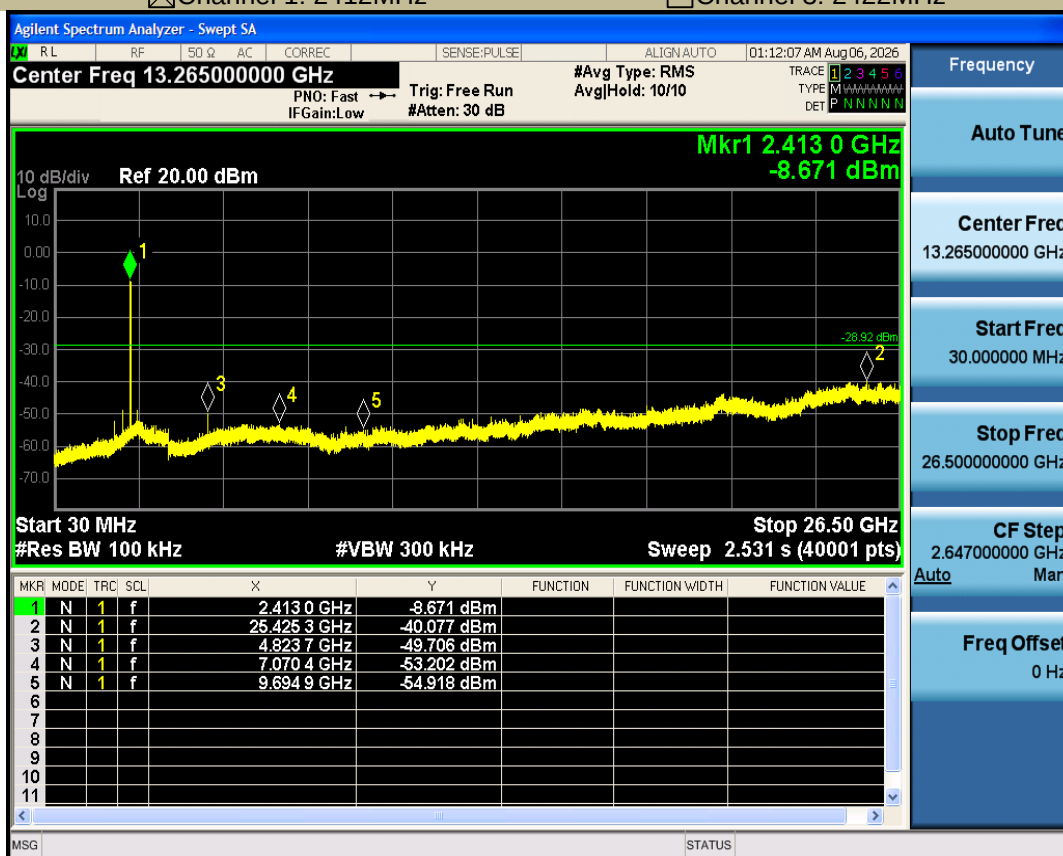
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



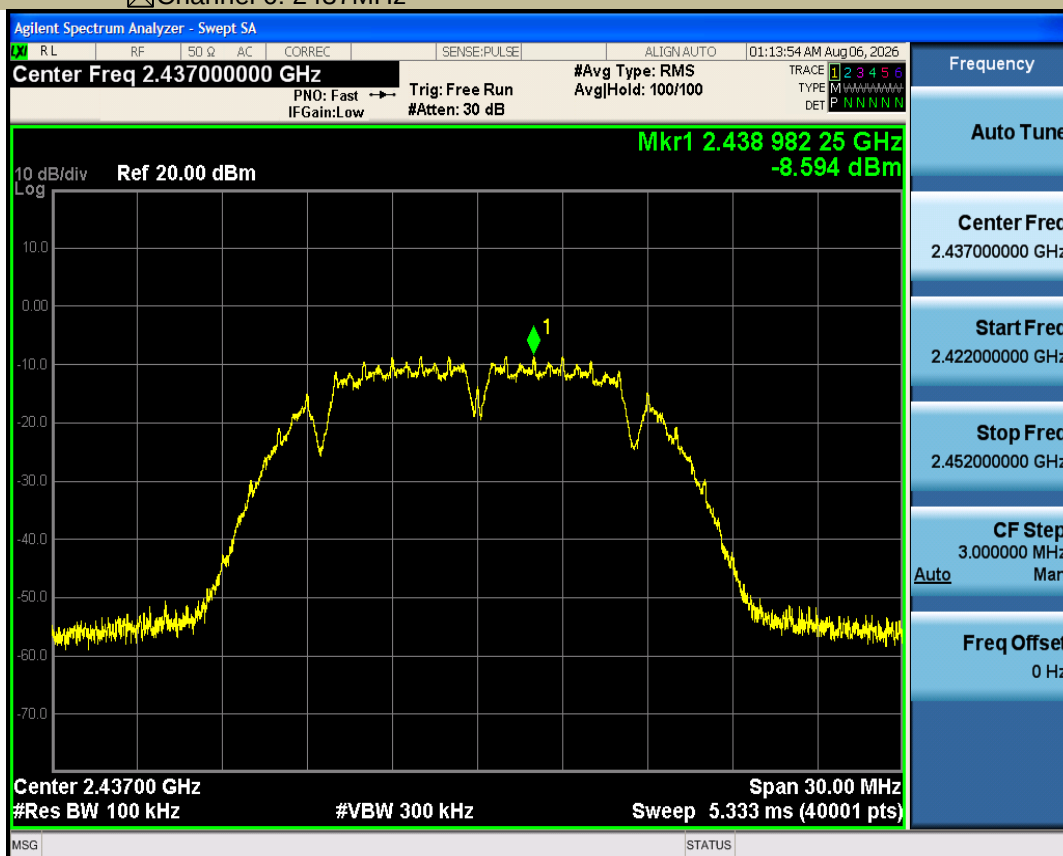
Unwanted Emissions in non-restricted frequency bands

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

☒Channel 1: 2412MHz ☐Channel 3: 2422MHz

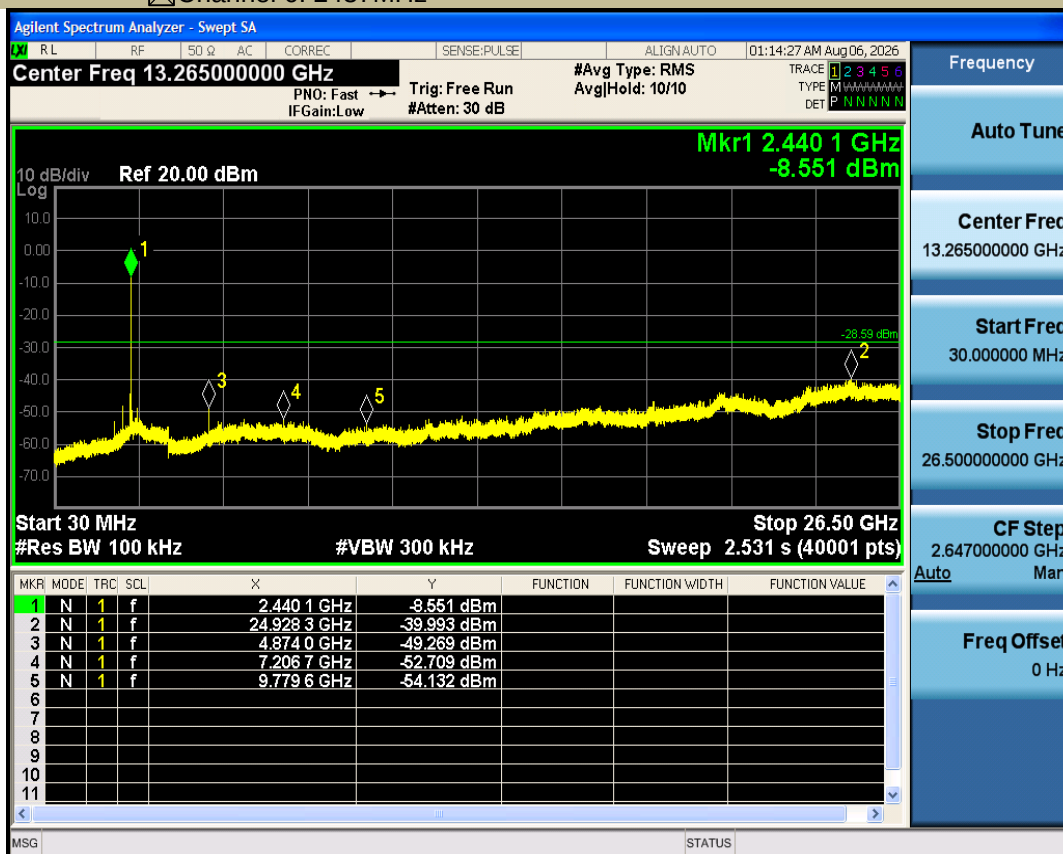


PSD(Power Spectral Density) RBW=100kHz
 Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 6: 2437MHz

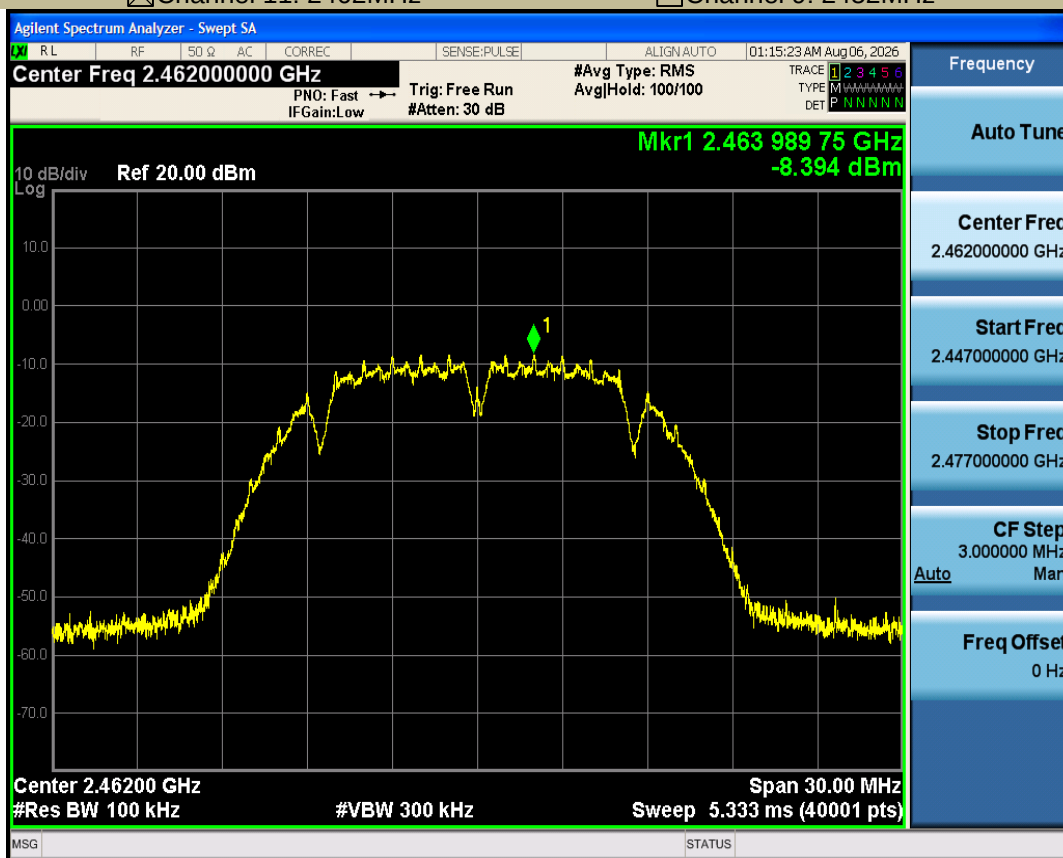


Unwanted Emissions in non-restricted frequency bands

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 6: 2437MHz

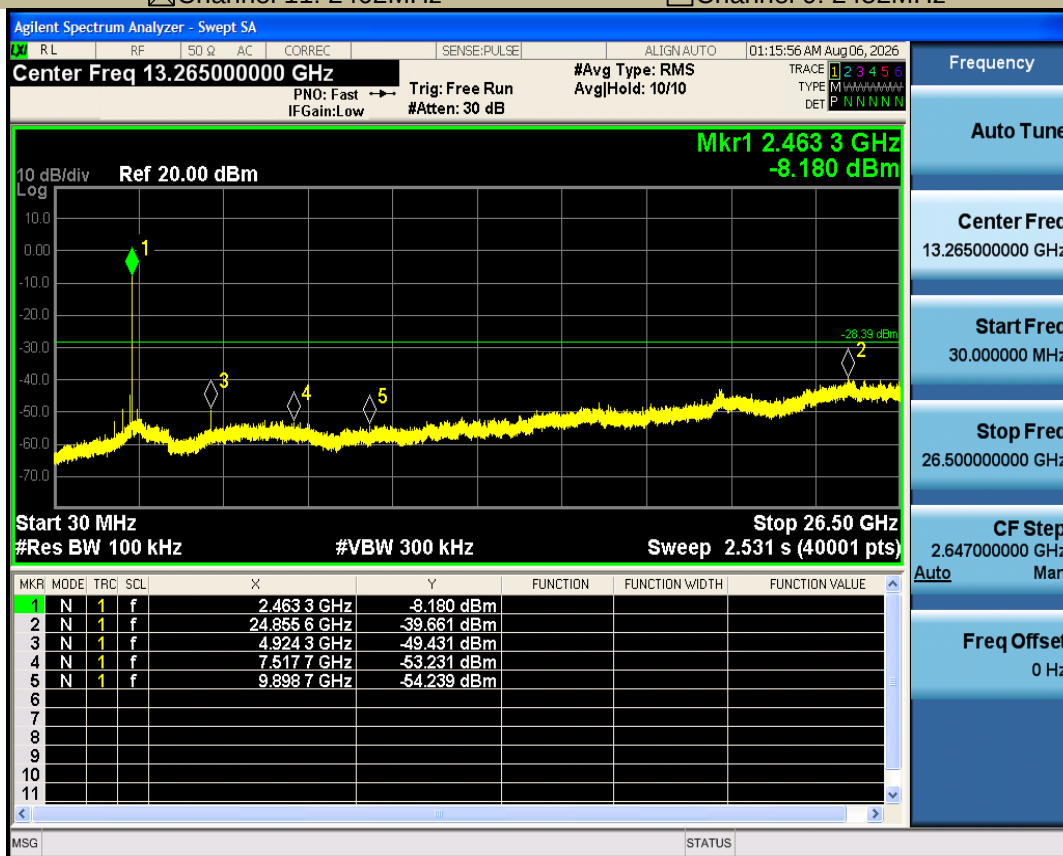


PSD(Power Spectral Density) RBW=100kHz
 Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz

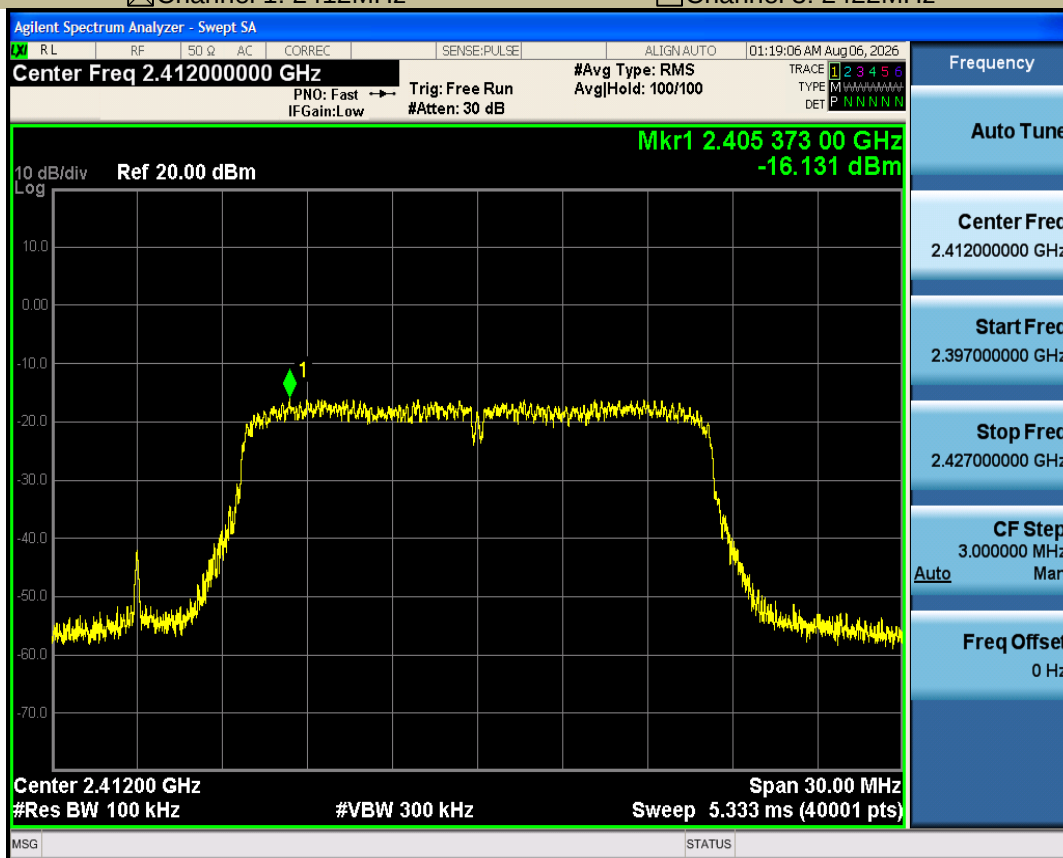


Unwanted Emissions in non-restricted frequency bands

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz

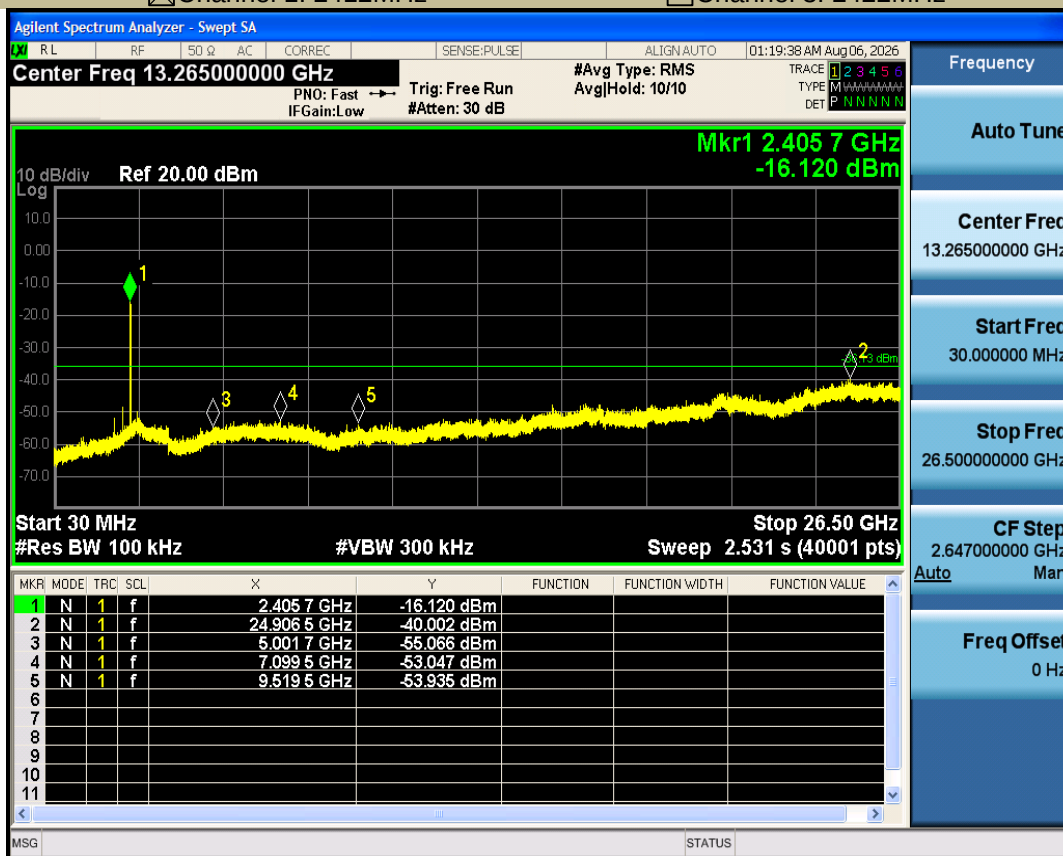


PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐802.11b ☒802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz

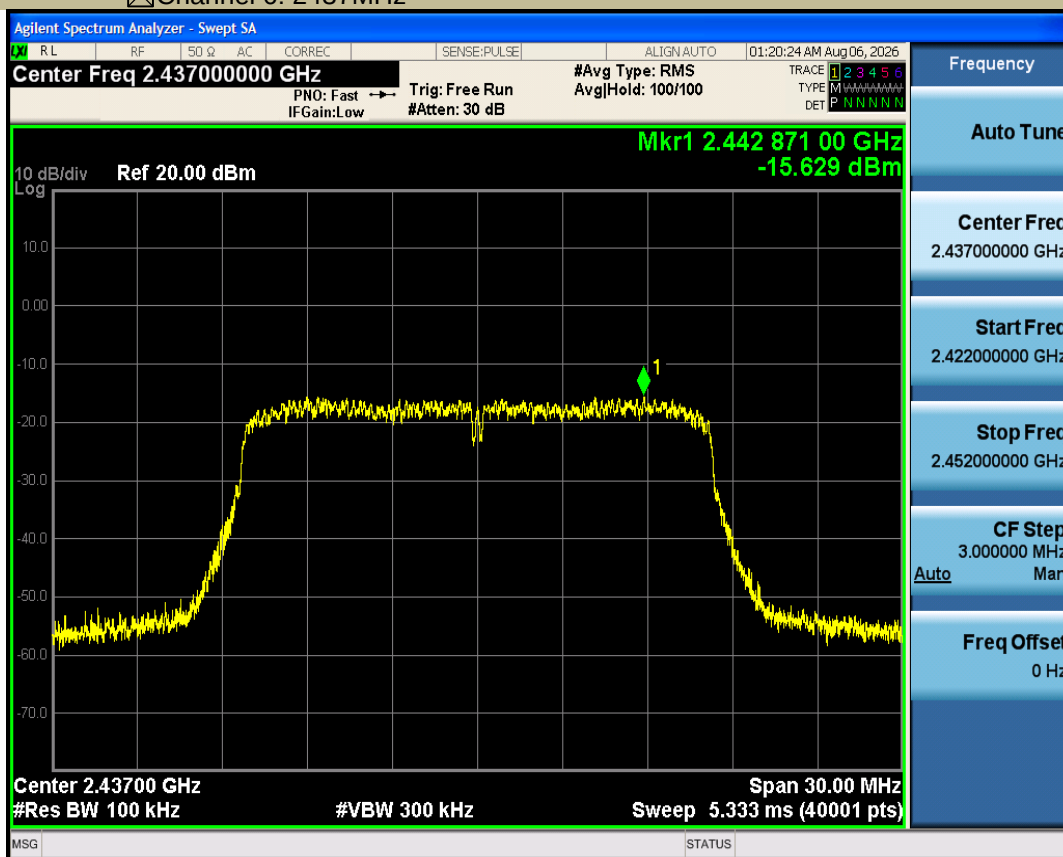


Unwanted Emissions in non-restricted frequency bands

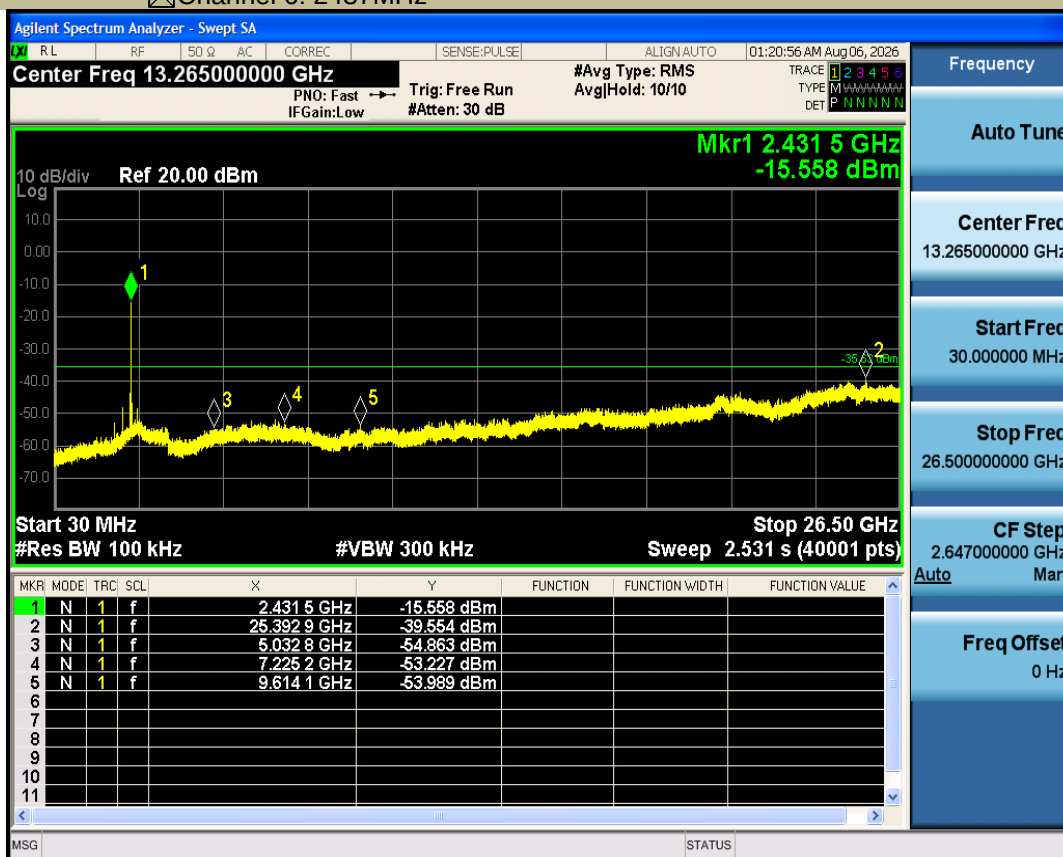
Test Model ☐802.11b ☒802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



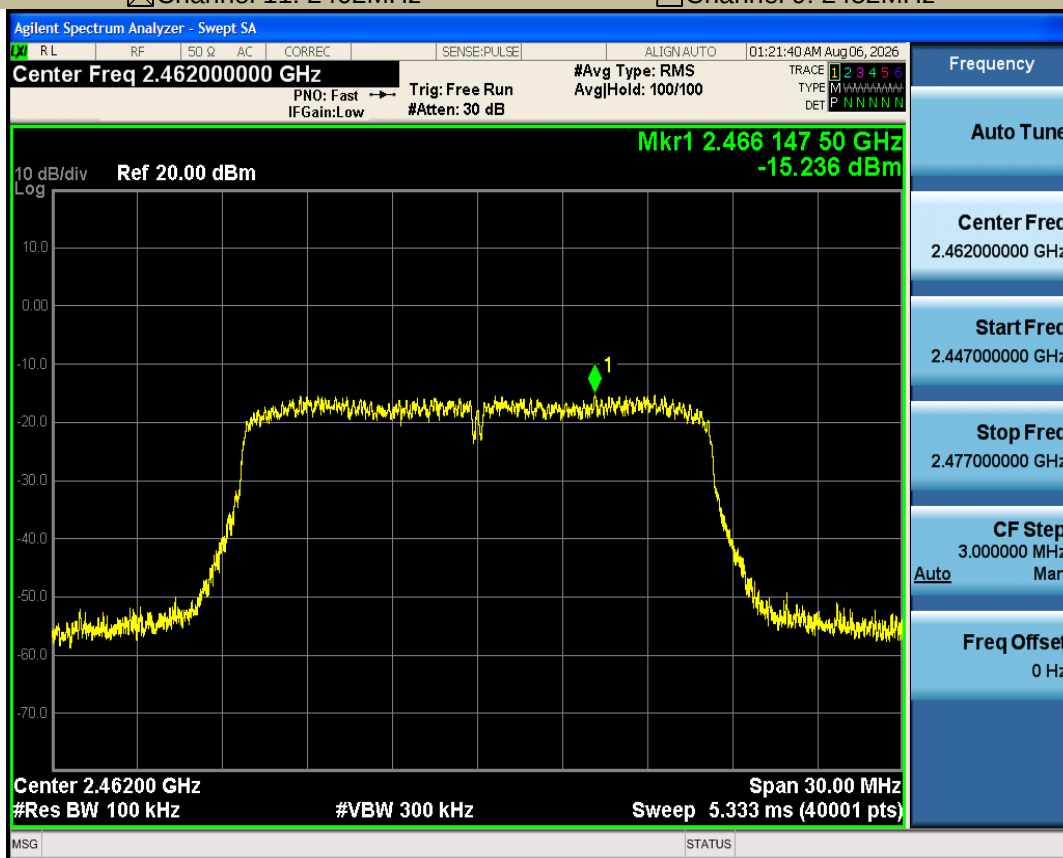
PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 6: 2437MHz



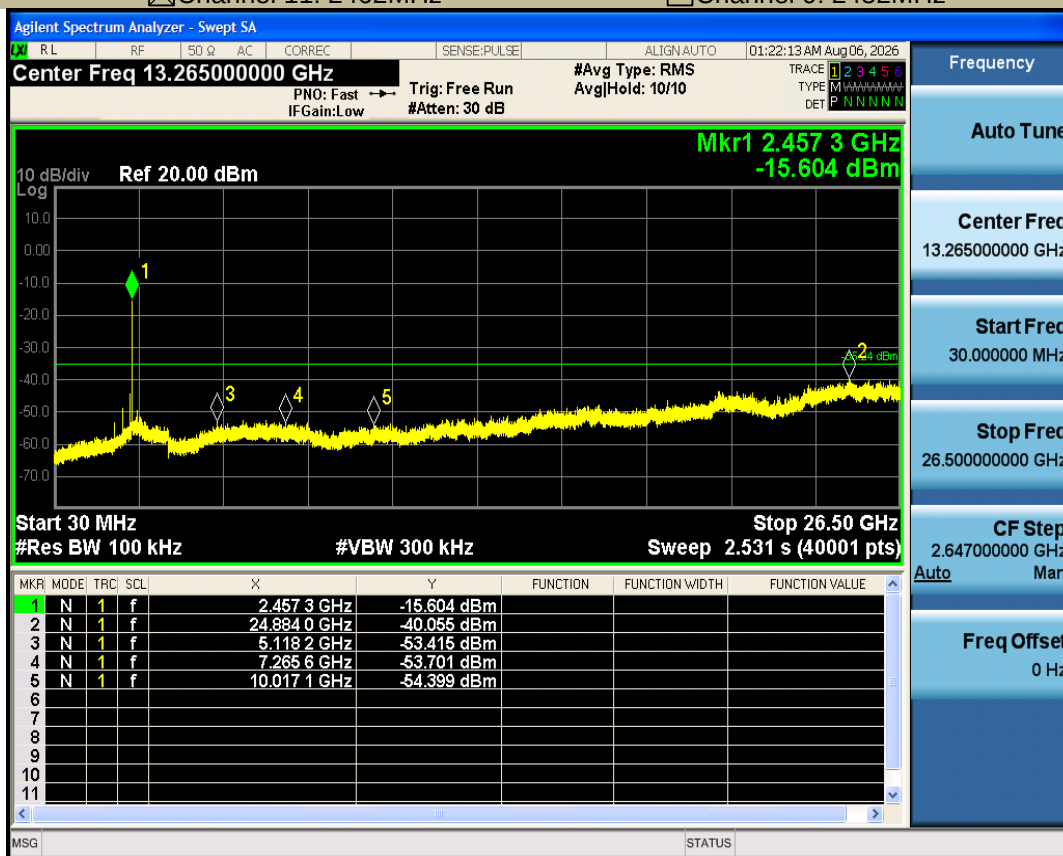
Unwanted Emissions in non-restricted frequency bands
 Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 6: 2437MHz



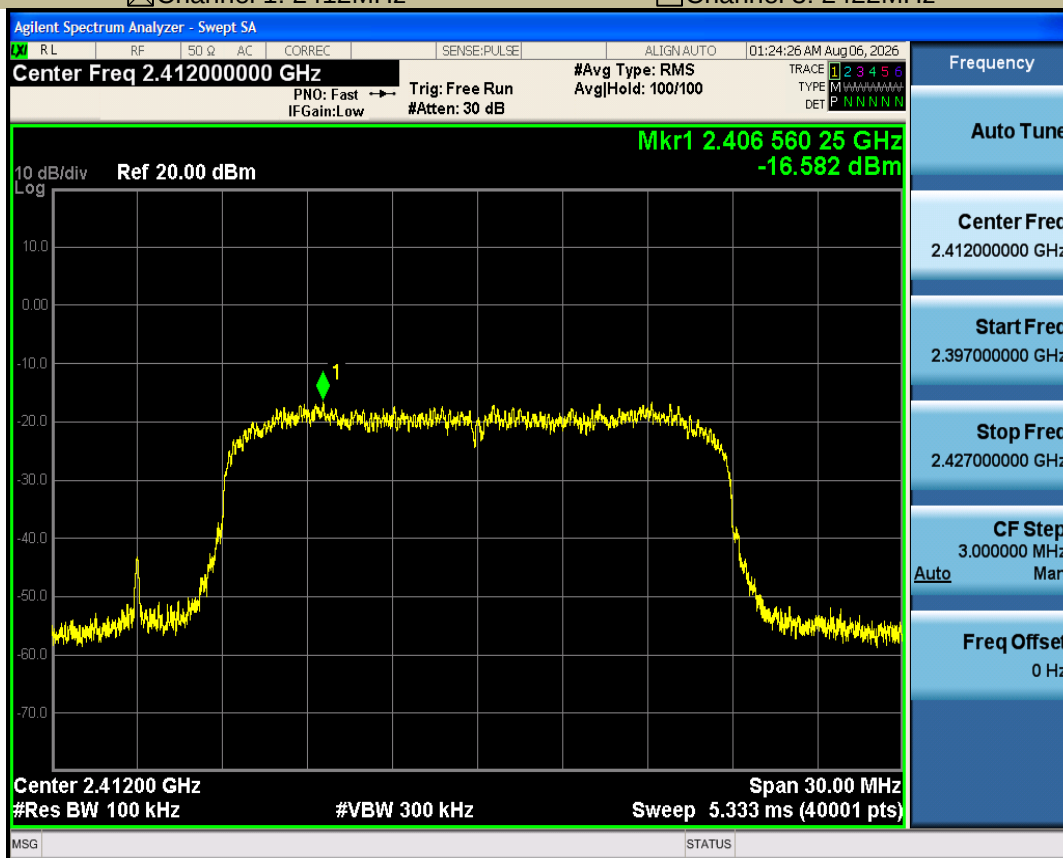
PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐802.11b ☒802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz



Unwanted Emissions in non-restricted frequency bands
 Test Model ☐802.11b ☒802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz

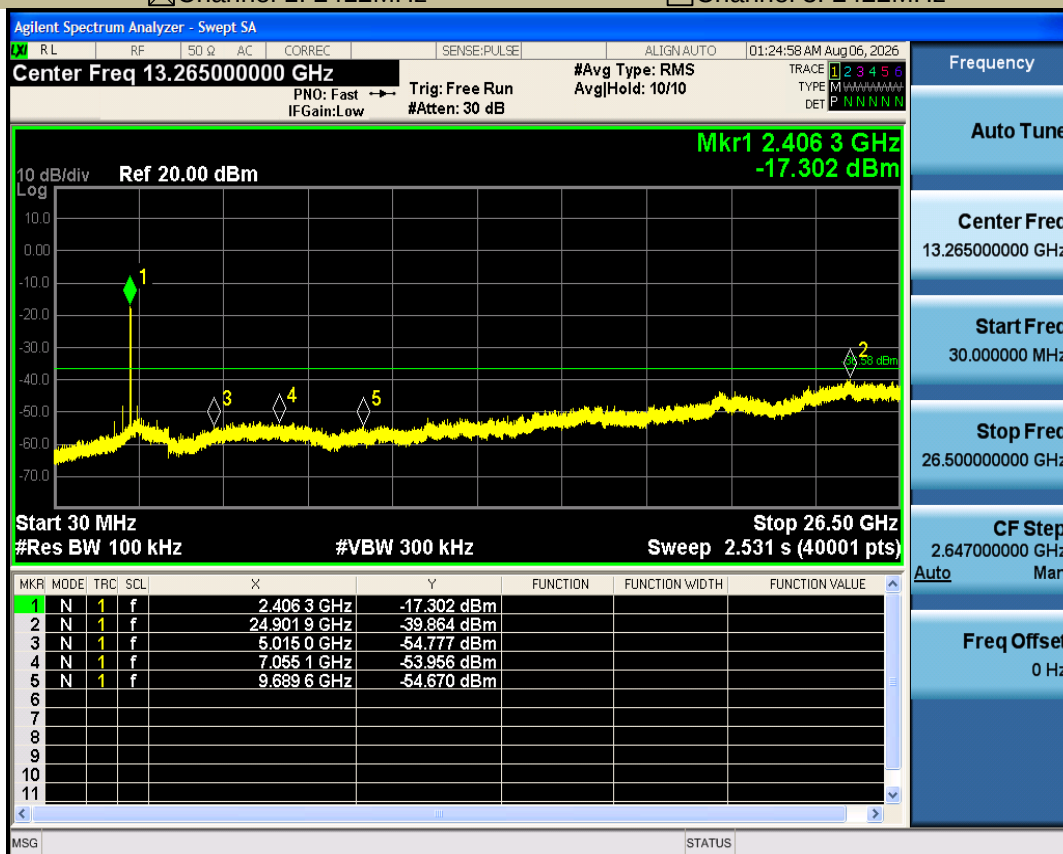


PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



Unwanted Emissions in non-restricted frequency bands

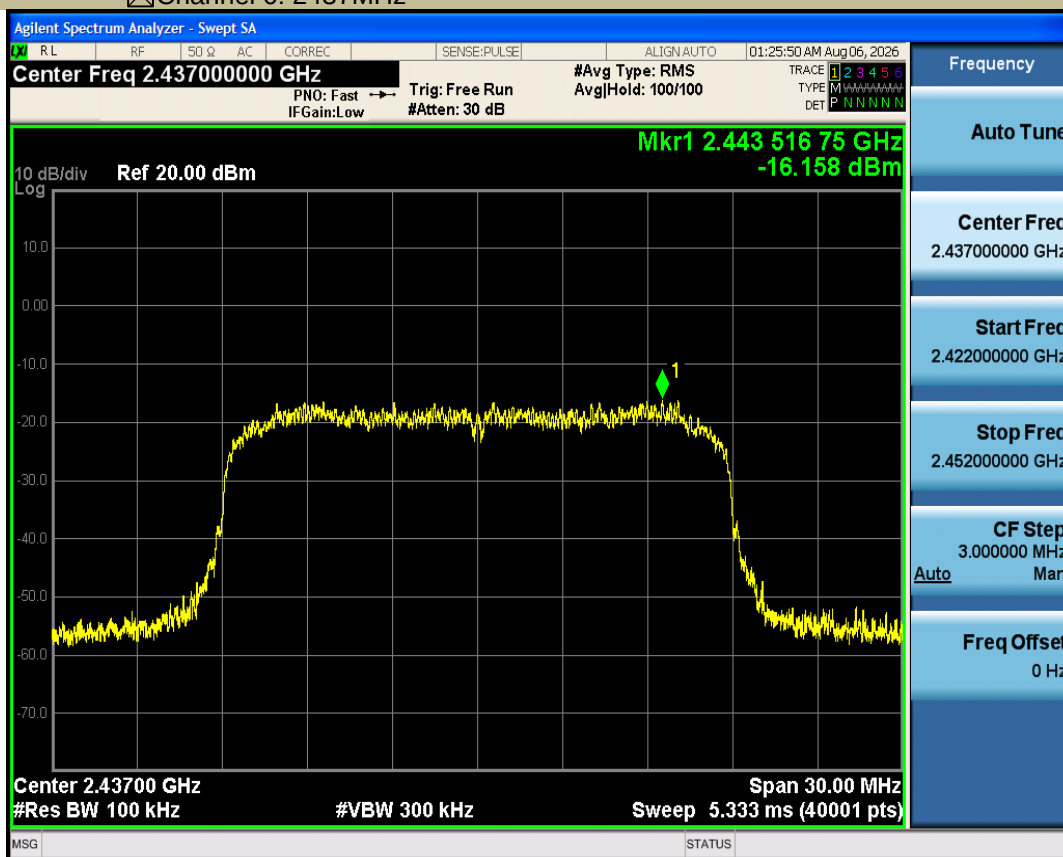
Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



PSD(Power Spectral Density) RBW=100kHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

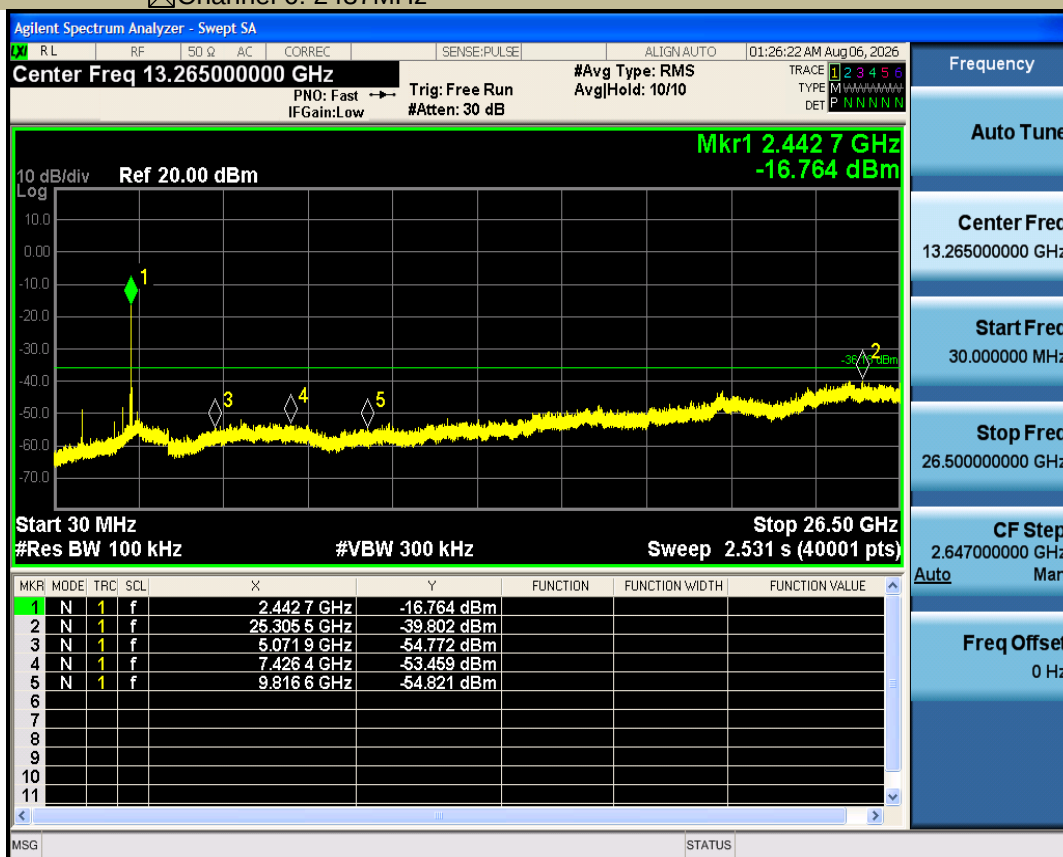
☒ Channel 6: 2437MHz



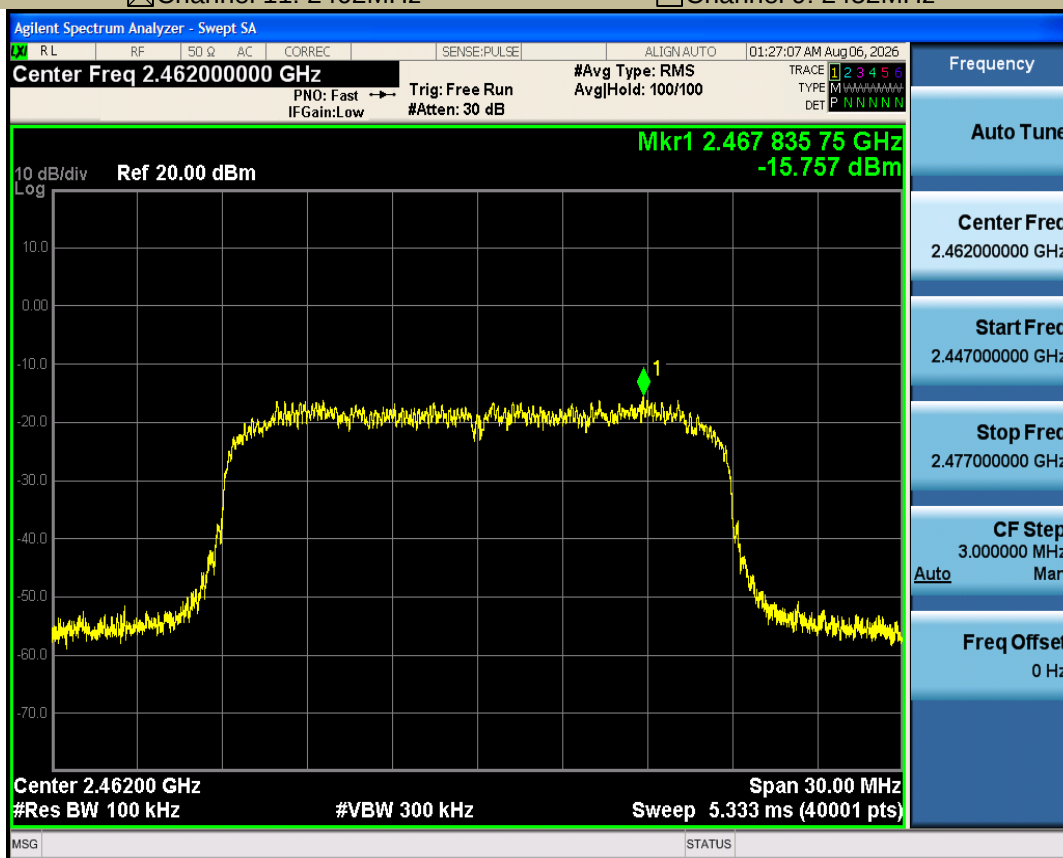
Unwanted Emissions in non-restricted frequency bands

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

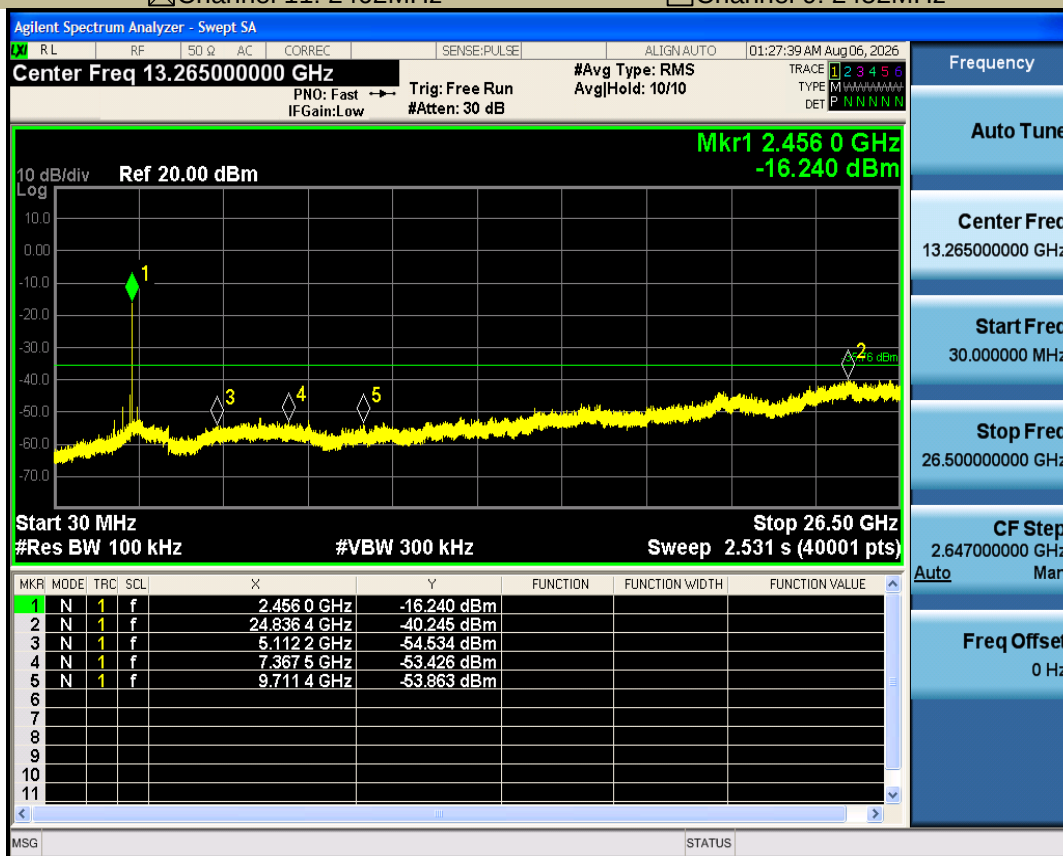
☒ Channel 6: 2437MHz



PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz



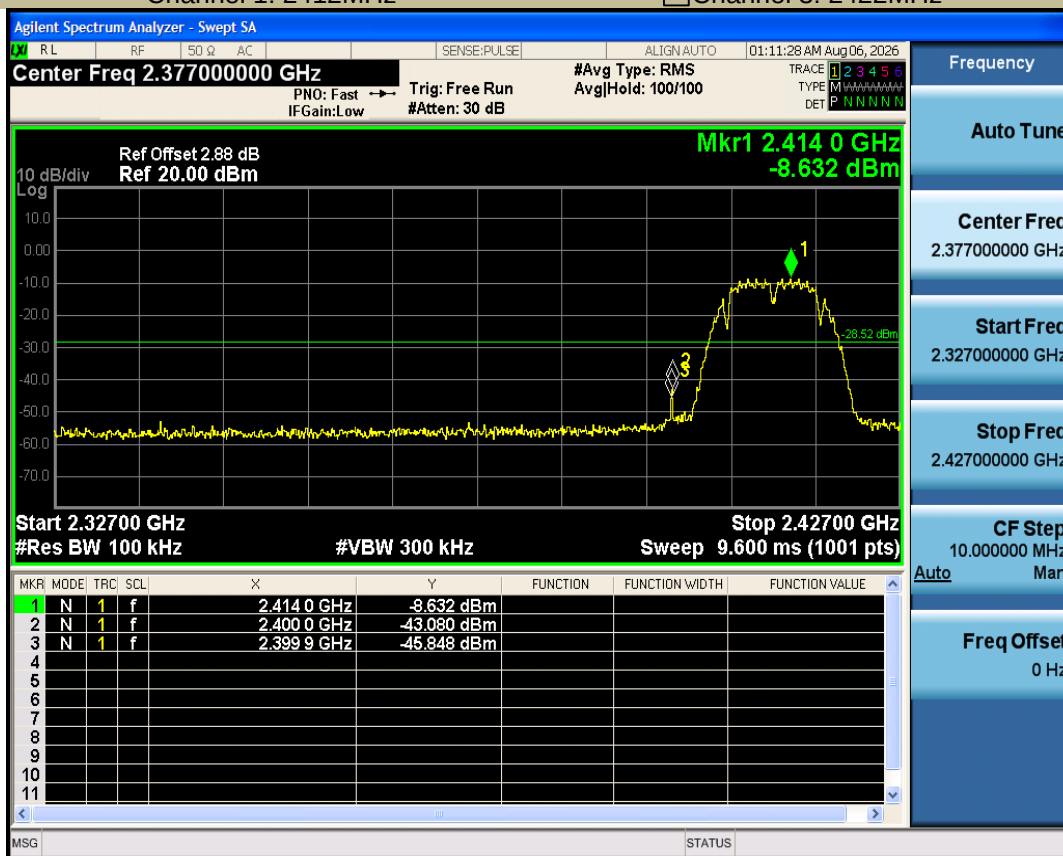
Unwanted Emissions in non-restricted frequency bands
 Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz



PSD(Power Spectral Density) RBW=100kHz
 Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



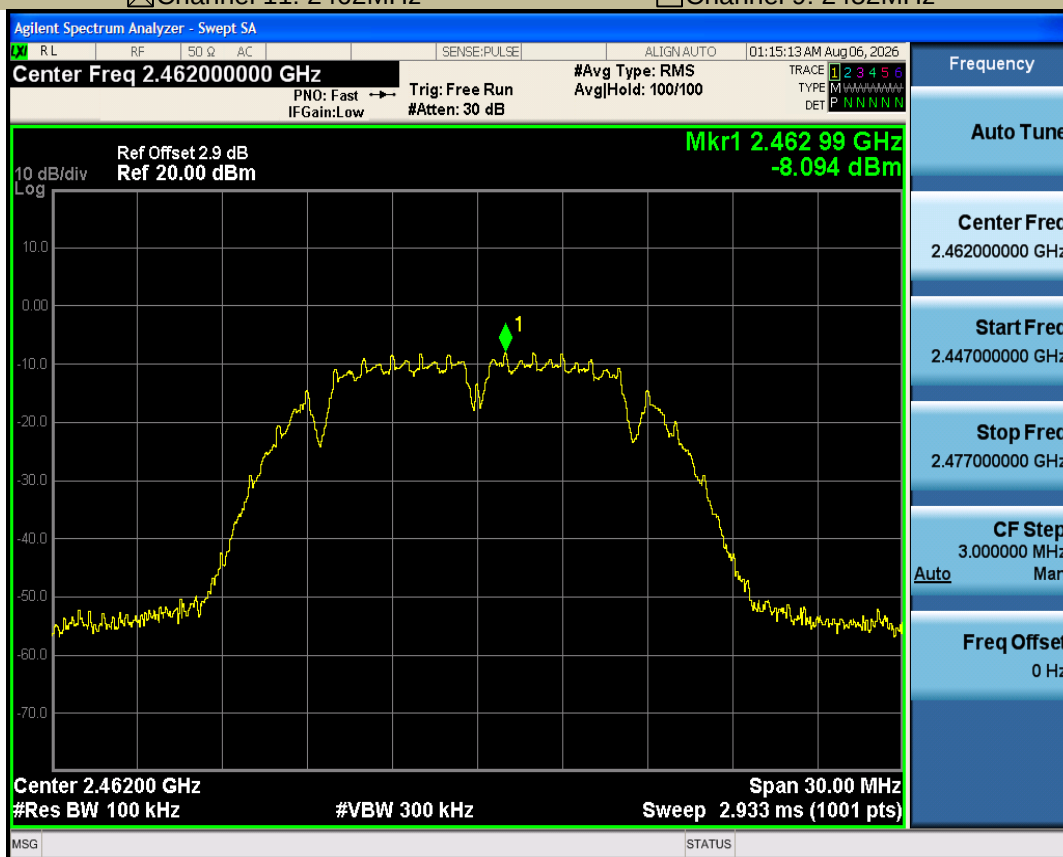
Band edge
 Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)
 Channel 1: 2412MHz ☐Channel 3: 2422MHz



PSD(Power Spectral Density) RBW=100kHz

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

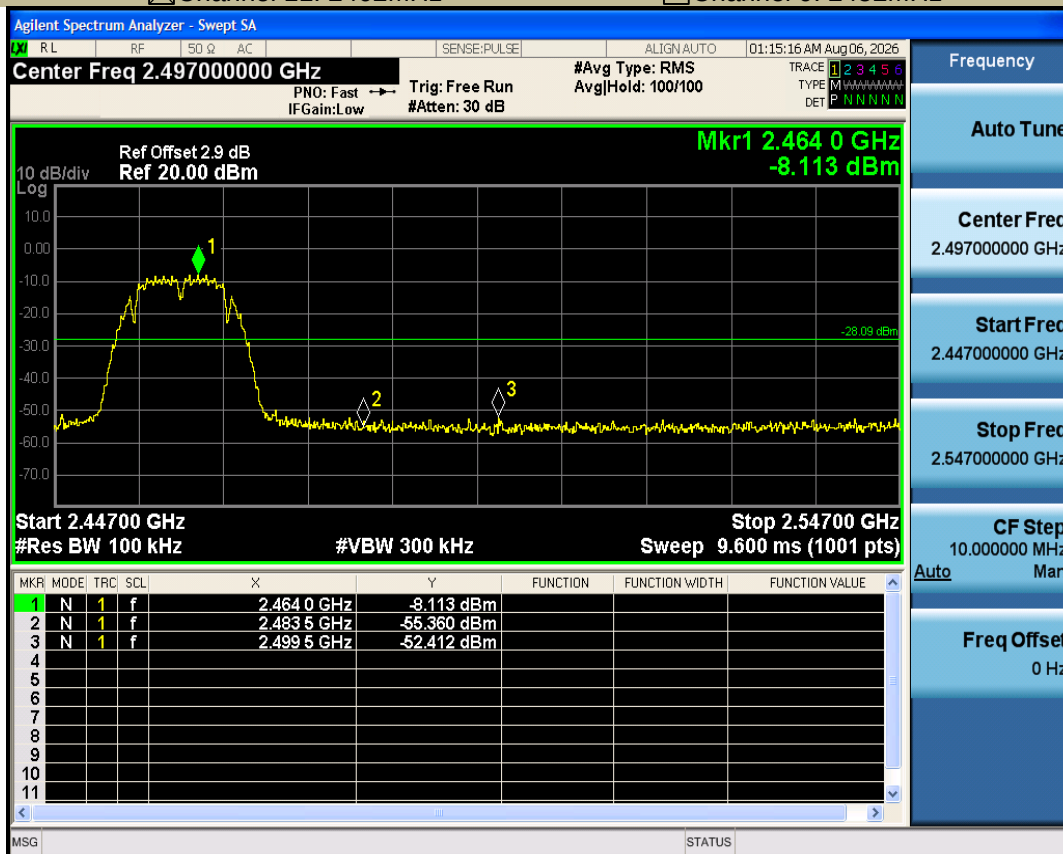
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz



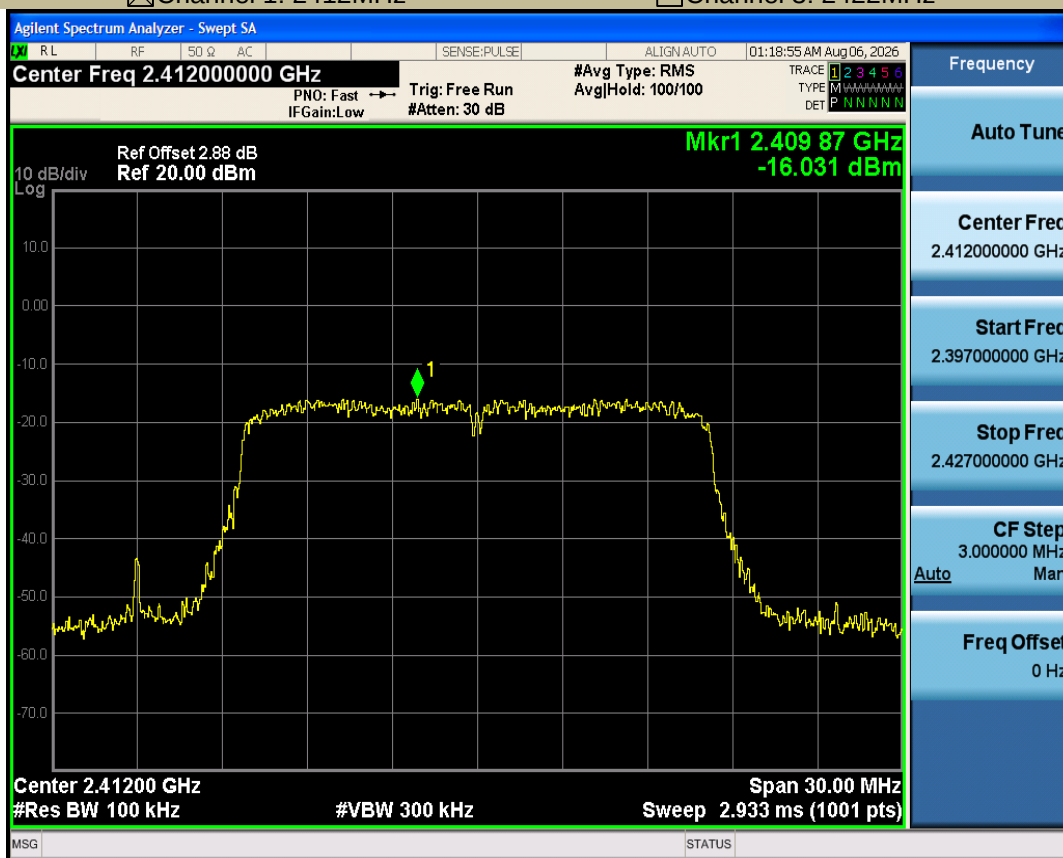
Band edge

Test Model ☒802.11b ☐802.11g ☐802.11n(HT20) ☐802.11n(HT40)

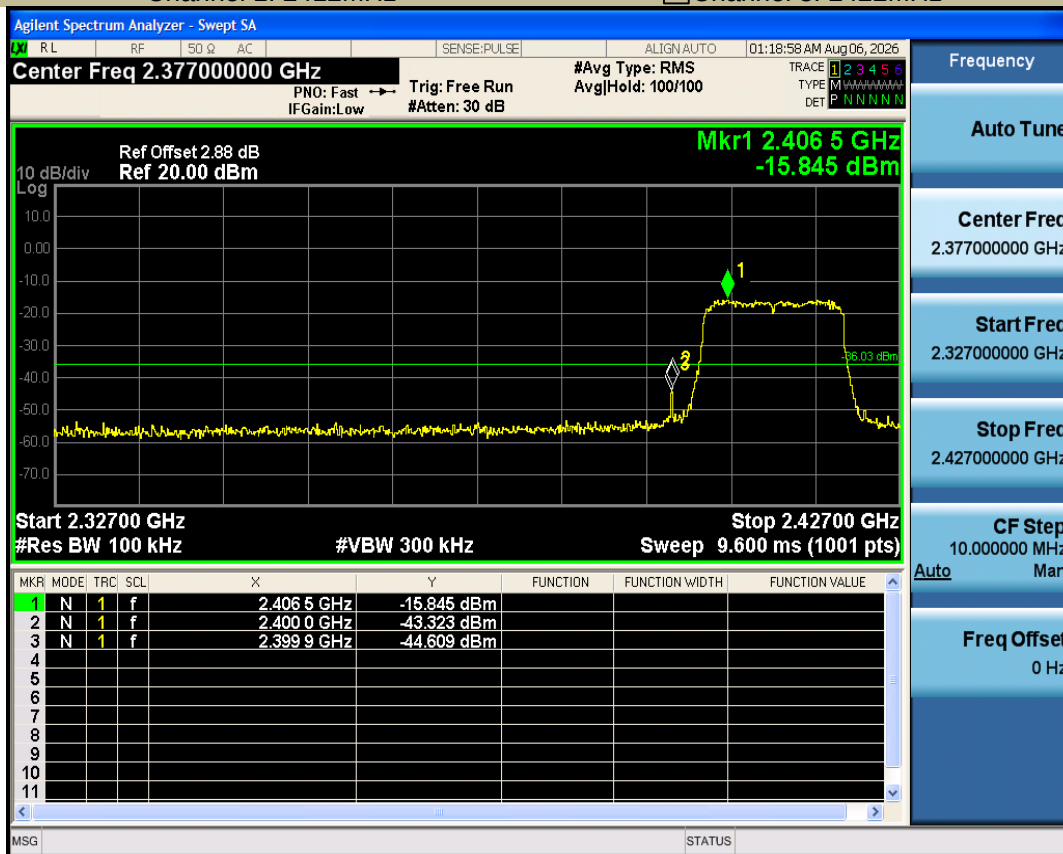
☒Channel 11: 2462MHz ☐Channel 9: 2452MHz



PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1: 2412MHz ☐ Channel 3: 2422MHz



Band edge
 Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)
 Channel 1: 2412MHz ☐ Channel 3: 2422MHz



PSD(Power Spectral Density) RBW=100kHz

Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)

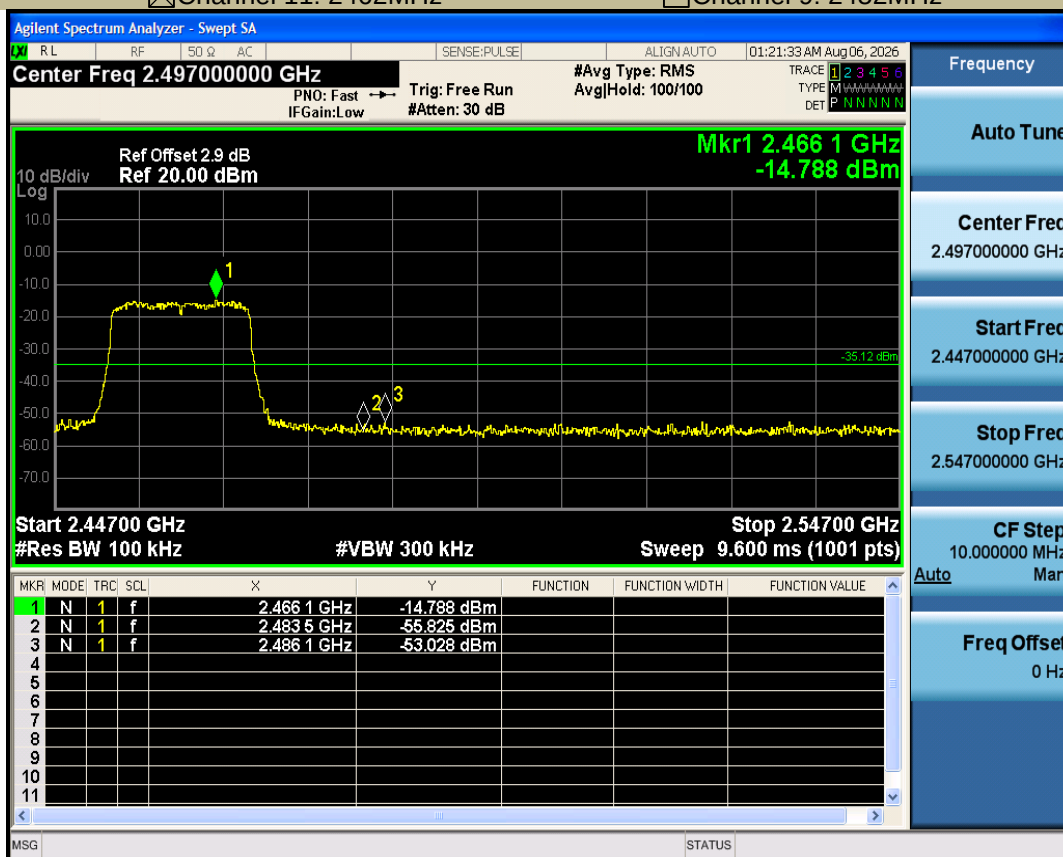
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



Band edge

Test Model ☐ 802.11b ☒ 802.11g ☐ 802.11n(HT20) ☐ 802.11n(HT40)

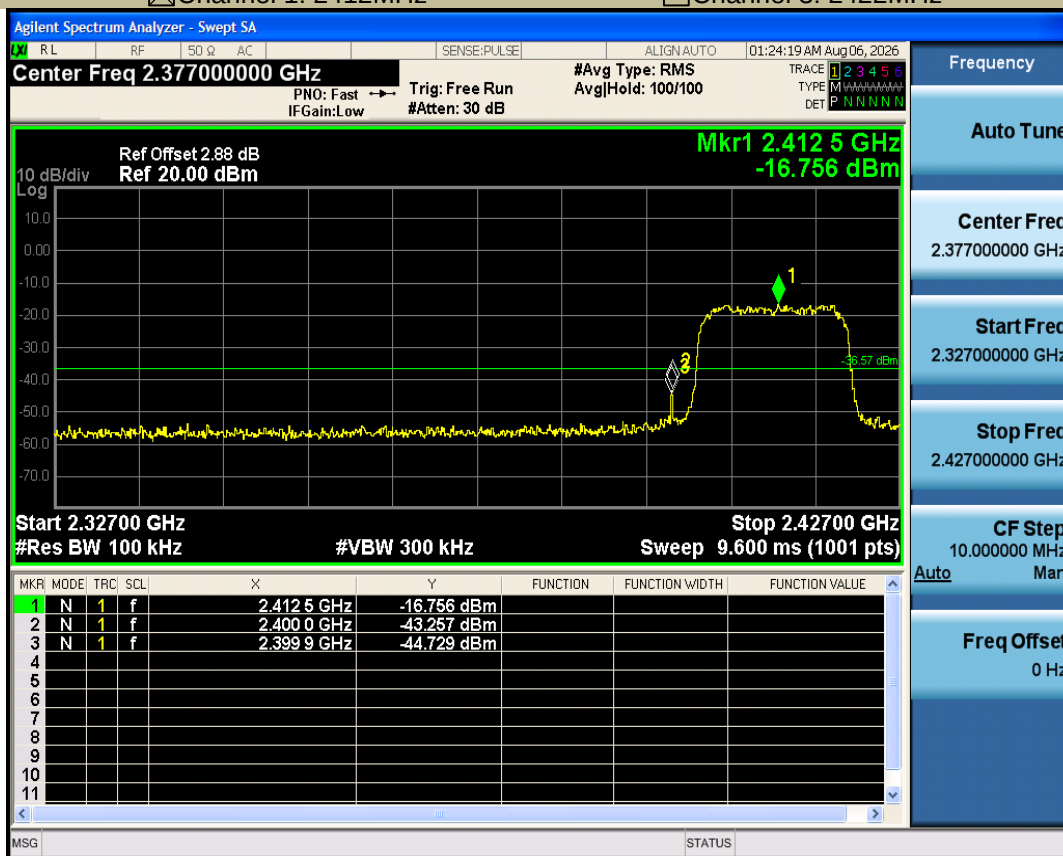
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



PSD(Power Spectral Density) RBW=100kHz
 Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



Band edge
 Test Model ☐802.11b ☐802.11g ☒802.11n(HT20) ☐802.11n(HT40)
☒Channel 1: 2412MHz ☐Channel 3: 2422MHz



PSD(Power Spectral Density) RBW=100kHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

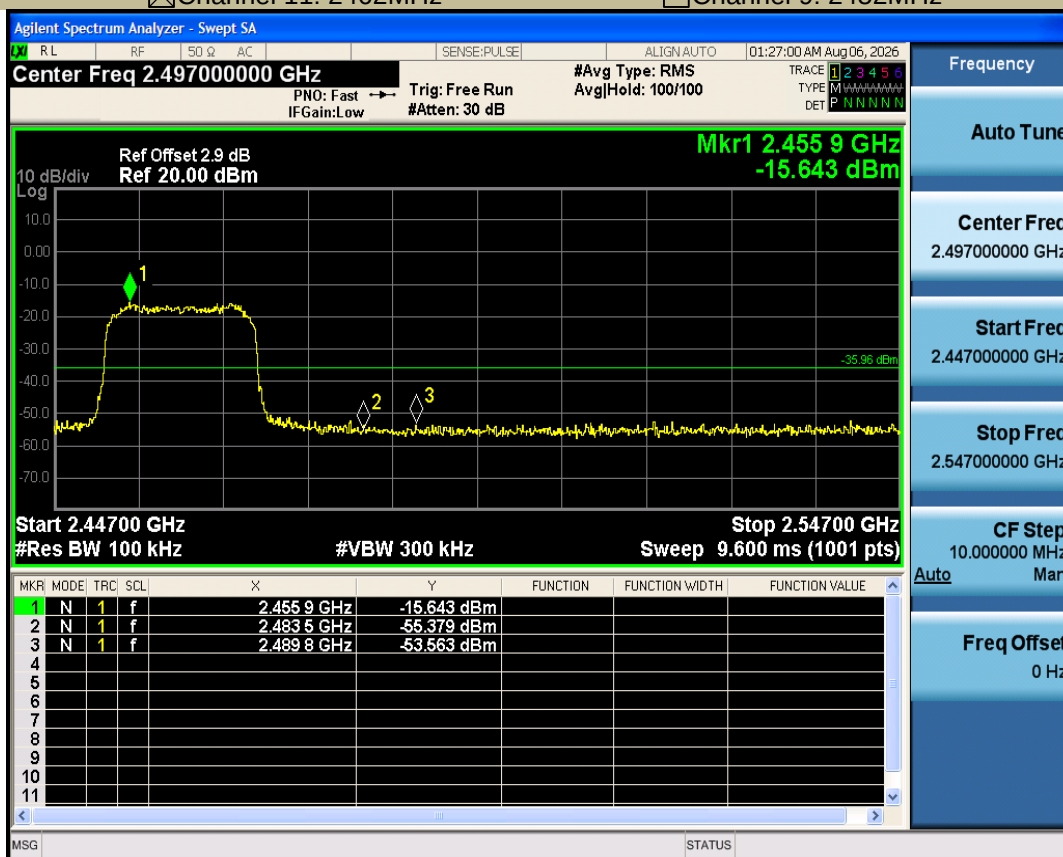
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



Band edge

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11b

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz



6.5 RADIATED SPURIOUS EMISSION

6.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

6.5.2 Conformance Limit

According to FCC Part 15.247(d): 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)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	1718.8-1722.2	13.25-13.4
6.31175-6.31225	108-121.94	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

6.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

6.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz (1GHz to 25GHz), 100 kHz for $f < 1$ GHz (30MHz to 1GHz), 200Hz for $f < 150$ KHz (9KHz to 150KHz), 9KHz for $f < 30$ MHz (150KHz to 30KHz)

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with

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sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

6.5.5 Test Results

Temperature:	23° C
Relative Humidity:	51%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All the modulation modes were tested and the worst result was report as below:

Test mode: 802.11b

Frequency: 2412MHz

Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
4824	V	57.21	37.44	-5.05	52.16	32.39	74	54	-21.84	-21.61
7236	V	54.34	38.57	-0.42	53.92	38.15	74	54	-20.08	-15.85
9648	V	56.24	35.08	5.00	61.24	40.08	74	54	-12.76	-13.92
12060	V	57.40	37.04	5.45	62.85	42.49	74	54	-11.15	-11.51
14472	V	51.29	34.29	7.92	59.21	42.21	74	54	-14.79	-11.79
16884	V	51.50	33.57	9.12	60.62	42.69	74	54	-13.38	-11.31
4824	H	54.59	35.72	-5.05	49.54	30.67	74	54	-24.46	-23.33
7236	H	51.79	36.80	-0.42	51.37	36.38	74	54	-22.63	-17.62
9648	H	52.66	39.72	5.00	57.66	44.72	74	54	-16.34	-9.28
12060	H	53.72	36.14	5.45	59.17	41.59	74	54	-14.83	-12.41
14472	H	57.04	35.15	7.92	64.96	43.07	74	54	-9.04	-10.93
16884	H	57.27	35.10	9.12	66.39	44.22	74	54	-7.61	-9.78

Test mode: 802.11b

Frequency: 2437MHz

Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
4874	V	54.51	34.30	-4.87	49.64	29.43	74	54	-24.36	-24.57
7311	V	52.24	37.22	-0.20	52.04	37.02	74	54	-21.96	-16.98
9748	V	57.92	34.23	5.20	63.12	39.43	74	54	-10.88	-14.57
12185	V	58.53	36.01	5.75	64.28	41.76	74	54	-9.72	-12.24
14622	V	51.15	37.17	7.84	58.99	45.01	74	54	-15.01	-8.99
17059	V	56.58	35.61	9.59	66.17	45.20	74	54	-7.83	-8.80
4874	H	57.27	38.73	-4.87	52.40	33.86	74	54	-21.60	-20.14
7311	H	54.56	39.78	-0.20	54.36	39.58	74	54	-19.64	-14.42
9748	H	58.68	35.55	5.20	63.88	40.75	74	54	-10.12	-13.25
12185	H	56.97	37.24	5.75	62.72	42.99	74	54	-11.28	-11.01
14622	H	54.84	37.34	7.84	62.68	45.18	74	54	-11.32	-8.82
17059	H	55.25	34.51	9.59	64.84	44.10	74	54	-9.16	-9.90

Test mode: 802.11b

Frequency: 2462MHz

Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
4924	V	56.43	35.63	-4.69	51.74	30.94	74	54	-22.26	-23.06
7386	V	58.62	33.10	-0.09	58.53	33.01	74	54	-15.47	-20.99
9848	V	55.36	38.14	5.42	60.78	43.56	74	54	-13.22	-10.44
12310	V	51.23	34.76	6.07	57.30	40.83	74	54	-16.70	-13.17
14772	V	57.47	39.01	7.66	65.13	46.67	74	54	-8.87	-7.33
17234	V	54.76	34.33	10.84	65.60	45.17	74	54	-8.40	-8.83
4924	H	54.98	36.06	-4.69	50.29	31.37	74	54	-23.71	-22.63
7386	H	52.90	39.94	-0.09	52.81	39.85	74	54	-21.19	-14.15
9848	H	54.11	38.17	5.42	59.53	43.59	74	54	-14.47	-10.41
12310	H	57.72	36.54	6.07	63.79	42.61	74	54	-10.21	-11.39
14772	H	54.26	33.42	7.66	61.92	41.08	74	54	-12.08	-12.92
17234	H	56.27	39.29	10.84	67.11	50.13	74	54	-6.89	-3.87

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+ Correct Factor.

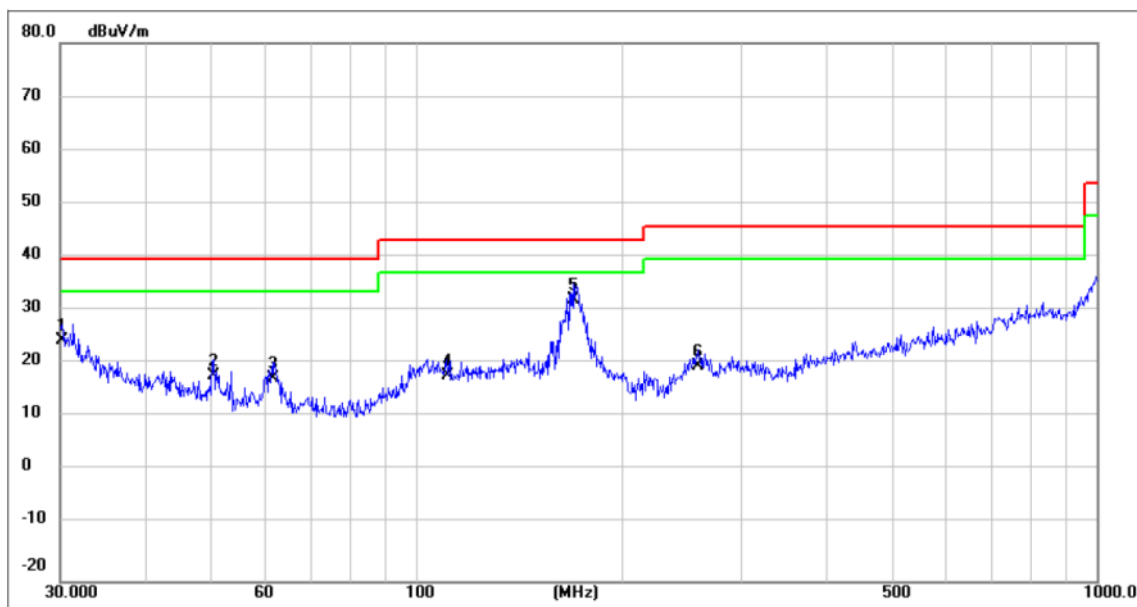
- Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
- All the modulation modes were tested and the worst result was report as below:

Test mode:		802.11b			Frequency:		Channel 1: 2412MHz			
Freq.	Ant. Pol.	Reading Level (dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m (dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
2343.74	H	58.07	33.34	-13.15	44.92	20.19	74	54	-29.08	-33.81
2360.12	V	56.86	33.70	-13.23	43.63	20.47	74	54	-30.37	-33.53

Test mode:		802.11b			Frequency:		Channel 11: 2462MHz			
Freq.	Ant. Pol.	Reading Level (dBuV/m)		Correct Factor	Emission Level(dBuV/m)		Limit 3m (dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV
2490.53	H	55.07	35.32	-12.10	42.97	23.22	74	54	-31.03	-30.78
2492.86	V	53.89	34.76	-12.51	41.38	22.25	74	54	-32.62	-31.75

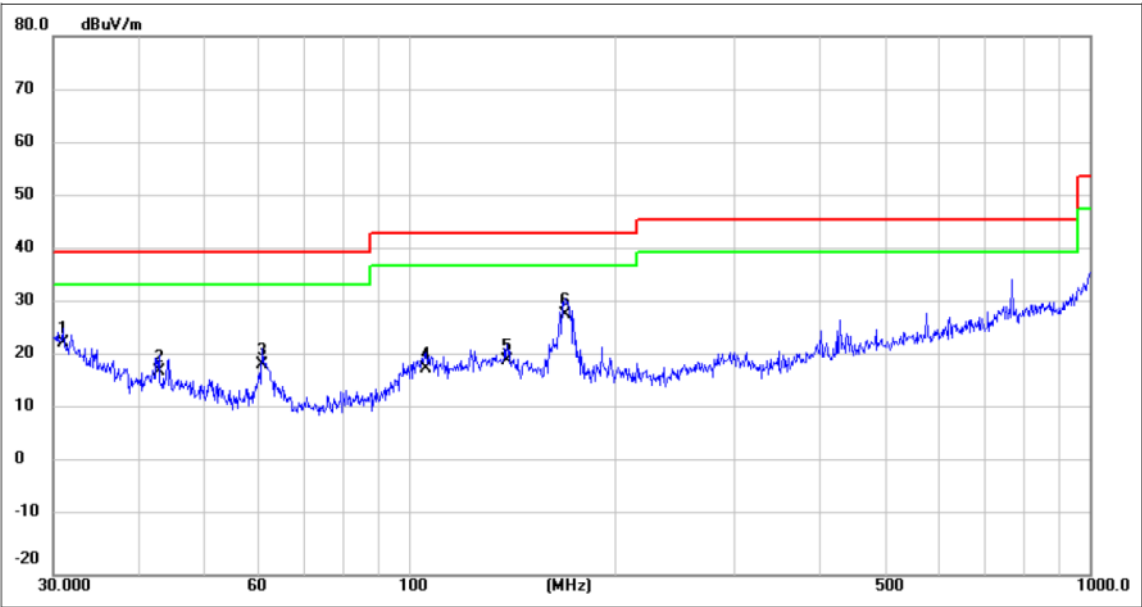
Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.

- Spurious Emission below 1GHz (30MHz to 1GHz)
- All the modulation modes were tested and the worst result was report as below::



Site:		Antenna::Horizontal	Temperature(C):24.5(C)
Limit:	FCC Part15C RE_3m		Humidity(%):55%
M/N.:	D1	Power Rating:	DC 3.7V
Mode:	TX 2412	Test Engineer:	Tate
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	30.2111	31.42	-6.46	24.96	40.00	-15.04	QP			
2	50.4089	26.76	-8.46	18.30	40.00	-21.70	QP			
3	61.5618	27.37	-9.50	17.87	40.00	-22.13	QP			
4	110.9571	22.06	-3.78	18.28	43.50	-25.22	QP			
5 *	170.1948	37.42	-5.04	32.38	43.50	-11.12	QP			
6	260.1444	22.17	-2.11	20.06	46.00	-25.94	QP			



Site:		Antenna::Vertical	Temperature(C):24.5(C)
Limit:	FCC Part15C RE_3m		Humidity(%):55%
M/N.:	D1	Power Rating:	DC 3.7V
Mode:	TX 2412	Test Engineer:	Tate
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	31.0706	20.23	2.75	22.98	40.00	-17.02	QP			
2	42.8997	23.46	-5.71	17.75	40.00	-22.25	QP			
3	60.9175	28.59	-9.45	19.14	40.00	-20.86	QP			
4	106.0126	22.35	-4.13	18.22	43.50	-25.28	QP			
5	139.3611	22.27	-2.34	19.93	43.50	-23.57	QP			
6 *	169.5990	33.27	-4.97	28.30	43.50	-15.20	QP			

6.6 CONDUCTED EMISSIONS TEST

6.6.1 Applicable Standard

According to FCC Part 15.207(a)

6.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Remark: Test results were obtained from the following equation:

$$\begin{aligned}\text{Measurement (dB}\mu\text{V)} &= \text{LISN Factor (dB)} + \text{Cable Loss (dB)} + \text{Reading (dB}\mu\text{V)} \\ \text{Over (dB)} &= \text{Measurement (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}\end{aligned}$$

6.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

6.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

6.6.5 Test Results

N/A.

EUT is powered by DC.

6.7 ANTENNA APPLICATION

6.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.7.2 Result

PASS.

- The EUT has 1 antennas: a PCB Antenna for Wifi model, the gain is 2.46 dBi

Note:

- ☒ Antenna uses a permanently attached antenna which is not replaceable.
- ☐ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos.

----- END OF REPORT -----

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