TEST REPORT

Applicant Name :	Shenzhen SaiWenBoTe Intelligent Technology Co.,Ltd
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Report Number :	SZNS220330-11337E-RF-00
FCC ID:	2AWQX-NXT10B

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type:	IPS digital clock
Model No.:	NXT10B
Multiple Model(s) No.:	N/A
Trade Mark:	Nextube
Date Received:	2022/03/30
Report Date:	2022/07/25
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Roger Ling

EMC Engineer

Approved By:

Candy Li

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	Wi-Fi: 2412-2462MHz
Maximum Conducted Peak Output Power	Wi-Fi: 802.11b: 23.79dBm, 802.11g: 23.45dBm, 802.11n-HT20: 23.69dBm, 802.11n-HT40: 23.39dBm
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	2.33dBi(provided by the applicant)
Voltage Range	DC 5.0V from adapter
Sample serial number	SZNS220330-11337E-RF-S1 for Conducted and Radiation Emissions SZNS220330-11337E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: PS06H050K1000UU Input: AC 100-240V, 50/60Hz, 0.25A Output: DC 5.0V, 1000mA

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		$0.082*10^{-7}$
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 11 channels are provided to testing:

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

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 6 and 11.
802.11n-HT40 mode was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

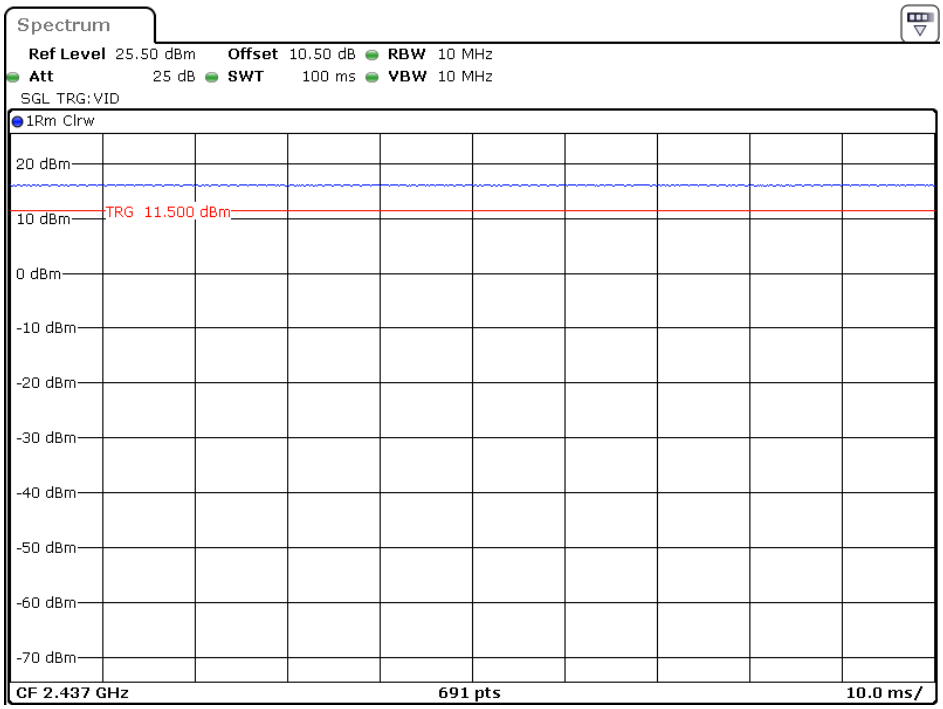
"EspRFTestTool_v2.8_Manual.exe"* software was used to test and power level as below:

Mode	Date rate	Power Level*		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	0	0	0
802.11g	6Mbps	0	0	0
802.11n-HT20	MCS0	0	0	0
802.11n-HT40	MCS0	0	0	0

The software and power level was provided by the applicant.

Duty cycle

802.11b mode



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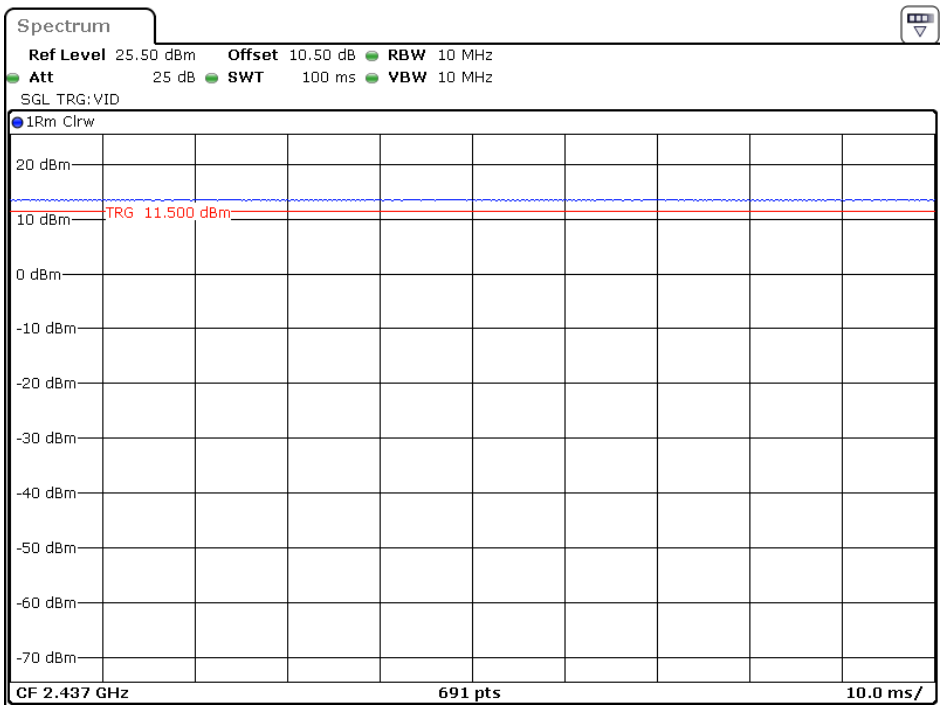
802.11g mode



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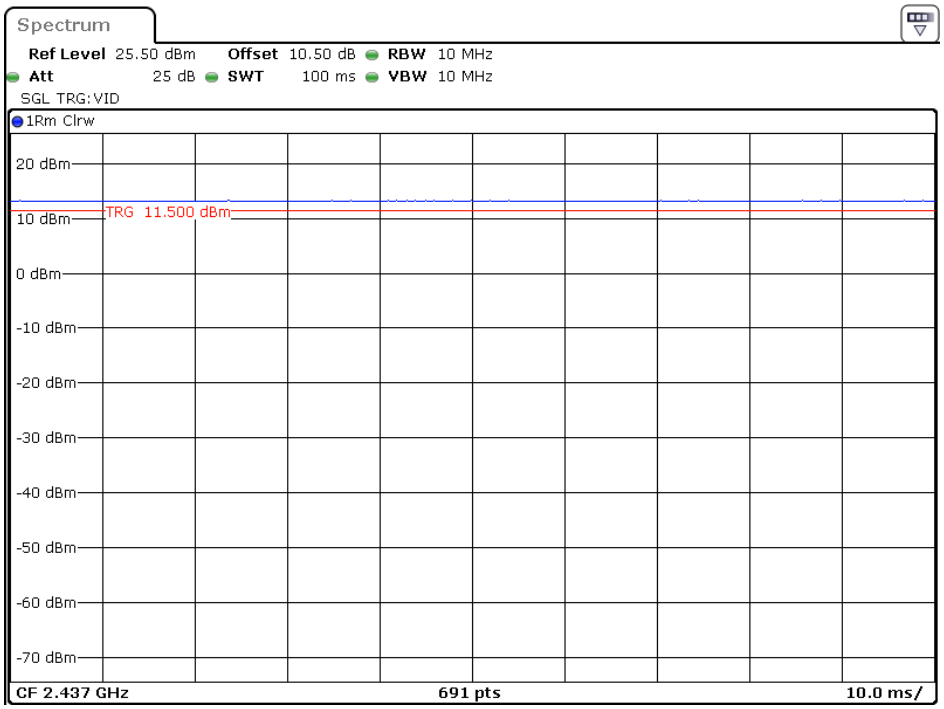
802.11n-HT20 Mode



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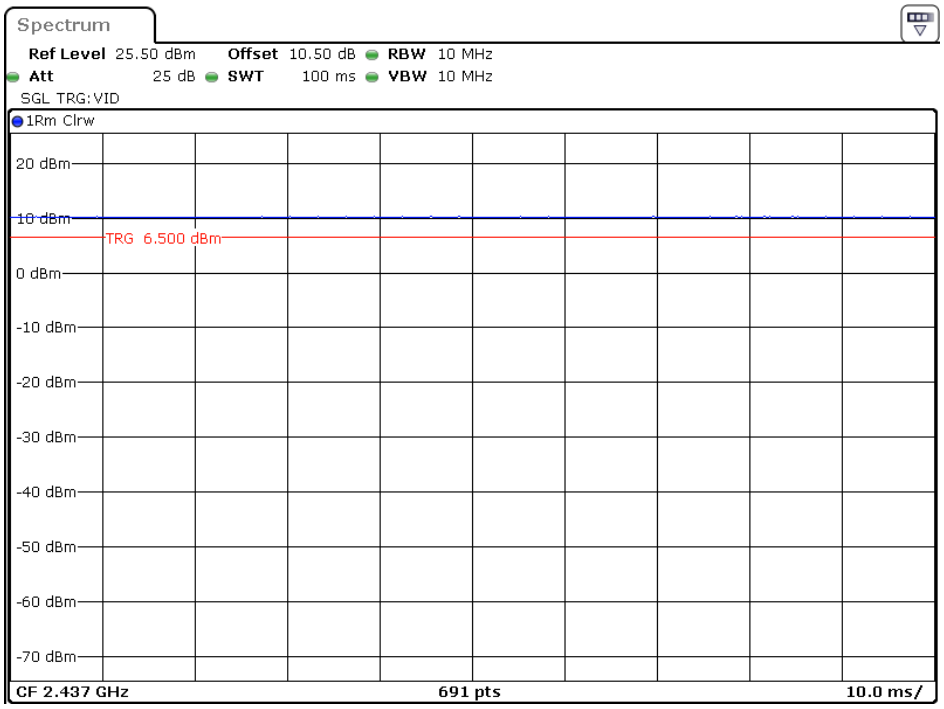
802.11n-HT40 Mode



Date: 23.JUL.2022 21:28:09

Mode	T_{on} (ms)	T_{on+off} (ms)	Duty Cycle (%)
802.11b	100	100	100
802.11g	100	100	100
802.11n-HT20	100	100	100
802.11n-HT40	100	100	100

Support Equipment List and Details

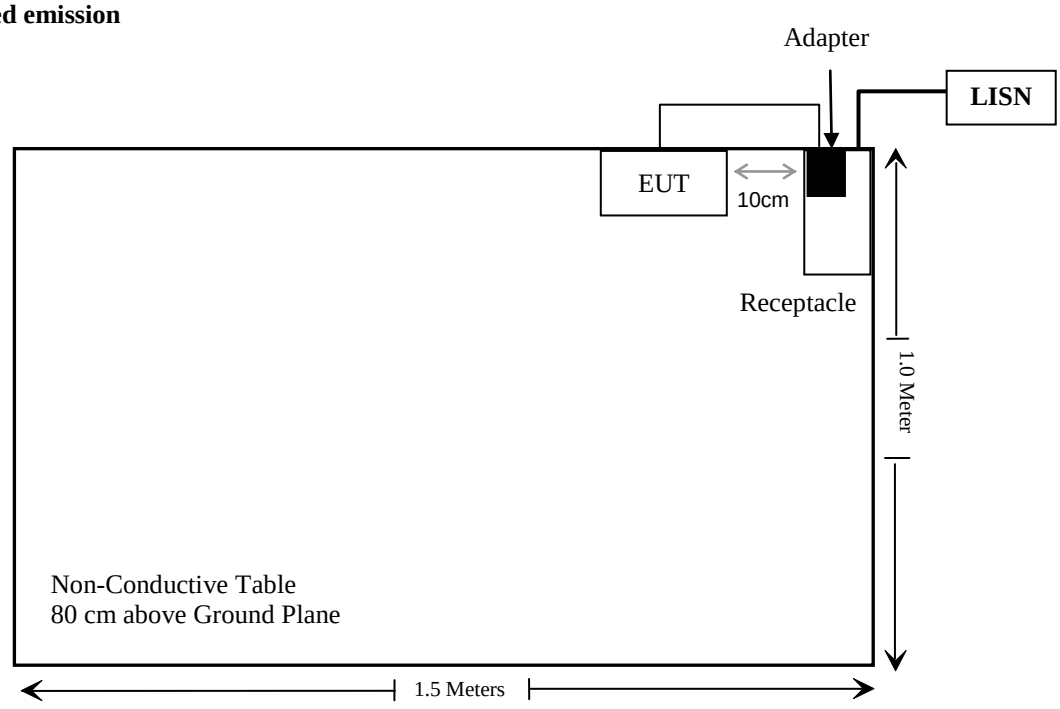
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

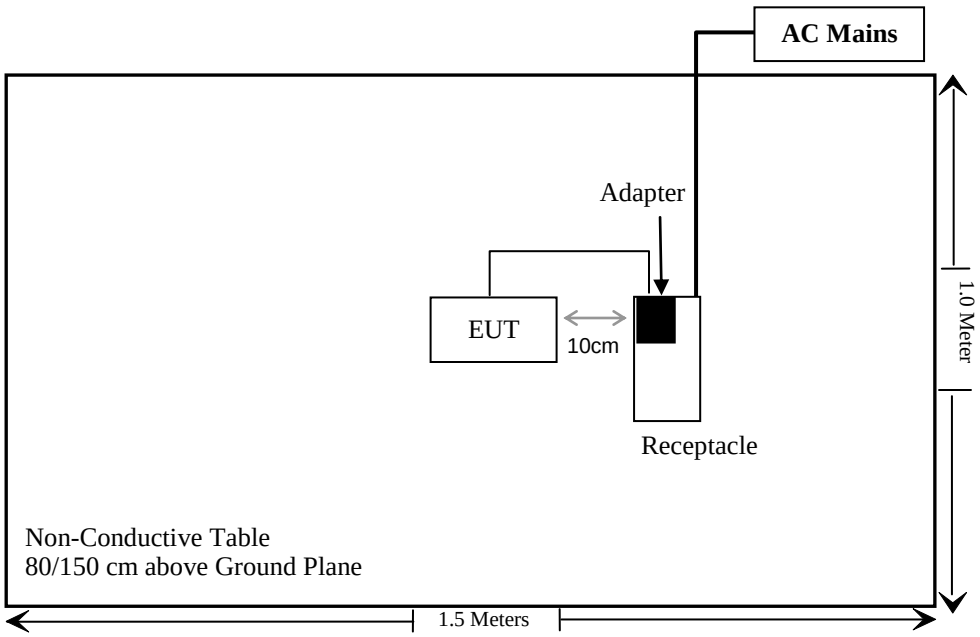
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.2	EUT	Adapter

Block Diagram of Test Setup

For conducted emission



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
Unknown	RF Cable	Unknown	1	Each time	

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemptionfrom further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

Ris the minimum separation distance in meters
f = frequency in MHz

Result

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance (m)	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)		
Wi-Fi	2412-2462	24.0	2.33	0.18	24.18	0.262	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to §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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.
And according to FCC 47 CFR section 15.247 (b), if the 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 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 2.33dBi, fulfill the requirement of this section. Please refer to the EUT photos.

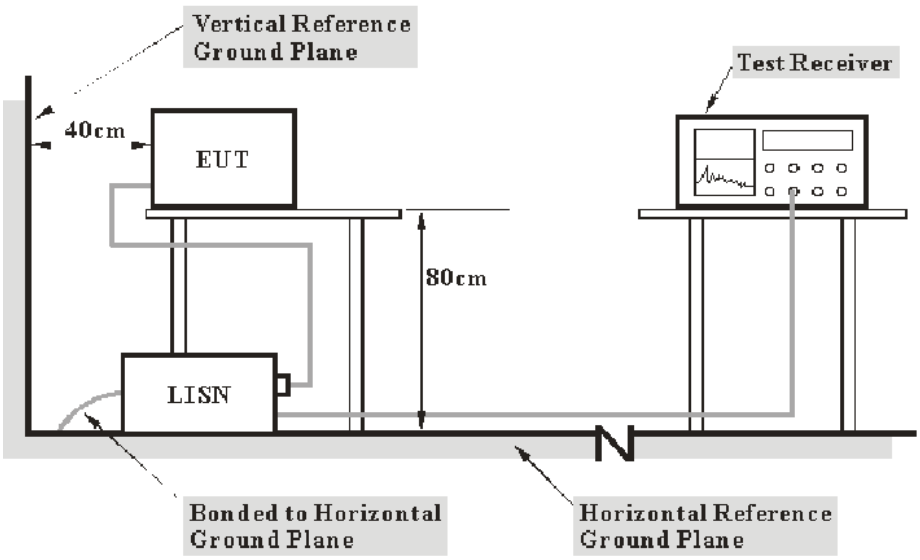
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Transd Factor = LISN VDF + Cable Loss

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over Limit = level – Limit
Level= reading level+ Transd Factor

Test Data

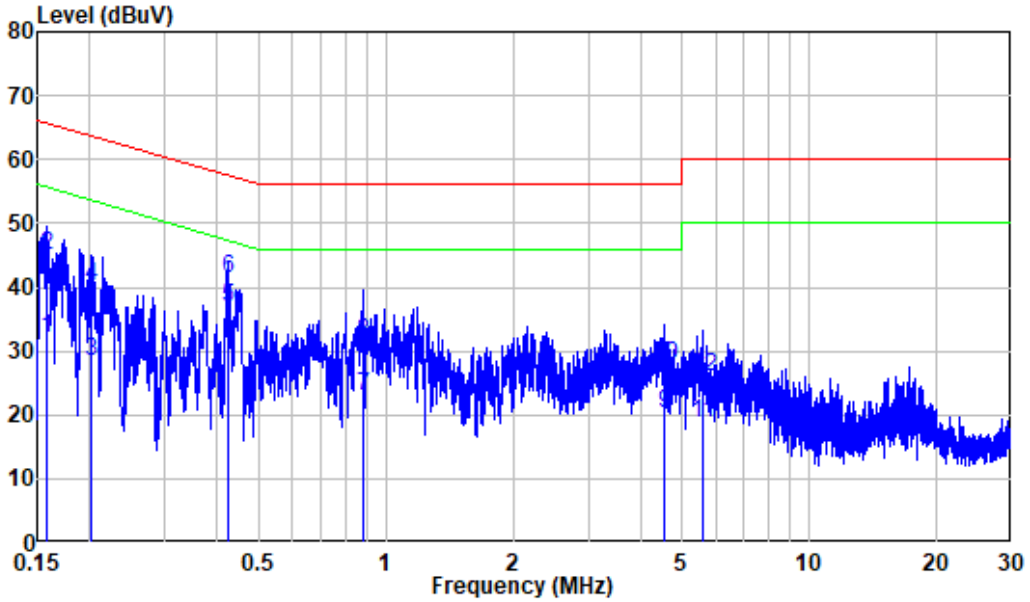
Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-06-20.

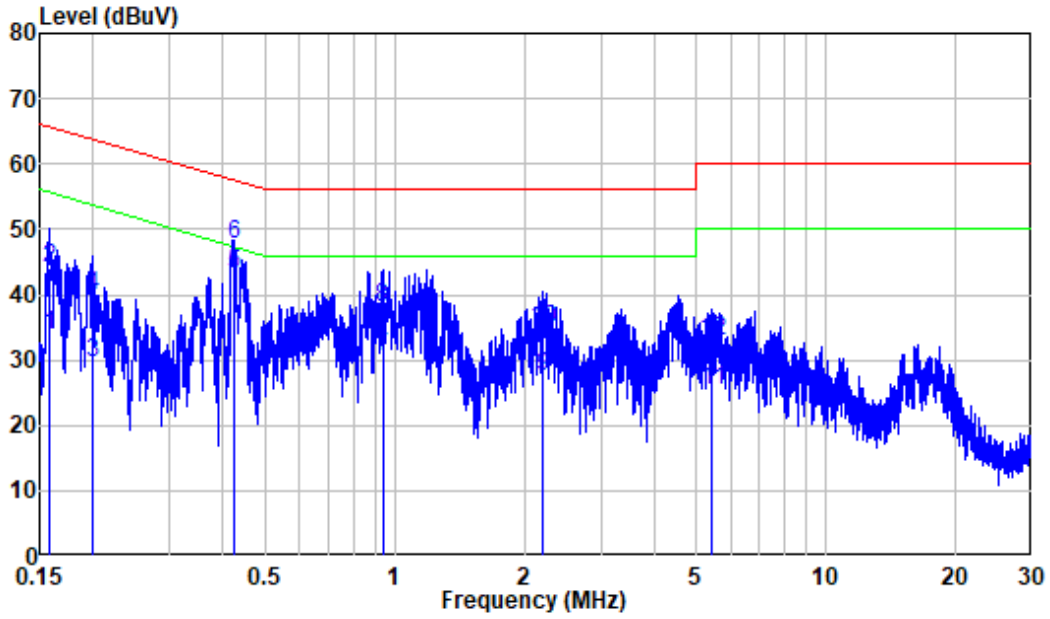
EUT operation mode: Transmitting (the worst case is 802.11b Mode, Low channel)

AC 120V/60 Hz, Line



	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.159	9.80	22.20	32.00	55.53	-23.53	Average
2	0.159	9.80	35.10	44.90	65.53	-20.63	QP
3	0.202	9.80	18.64	28.44	53.55	-25.11	Average
4	0.202	9.80	30.21	40.01	63.55	-23.54	QP
5	0.425	9.80	27.07	36.87	47.35	-10.48	Average
6	0.425	9.80	31.60	41.40	57.35	-15.95	QP
7	0.884	9.81	13.09	22.90	46.00	-23.10	Average
8	0.884	9.81	21.67	31.48	56.00	-24.52	QP
9	4.522	9.85	10.36	20.21	46.00	-25.79	Average
10	4.522	9.85	18.06	27.91	56.00	-28.09	QP
11	5.605	9.86	8.81	18.67	50.00	-31.33	Average
12	5.605	9.86	16.18	26.04	60.00	-33.96	QP

AC 120V/60 Hz, Neutral



	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.158	9.80	24.03	33.83	55.59	-21.76	Average
2	0.158	9.80	34.31	44.11	65.59	-21.48	QP
3	0.200	9.80	19.93	29.73	53.61	-23.88	Average
4	0.200	9.80	30.07	39.87	63.61	-23.74	QP
5	0.424	9.80	33.23	43.03	47.36	-4.33	Average
6	0.424	9.80	37.89	47.69	57.36	-9.67	QP
7	0.936	9.81	20.53	30.34	46.00	-15.66	Average
8	0.936	9.81	28.34	38.15	56.00	-17.85	QP
9	2.212	9.82	17.54	27.36	46.00	-18.64	Average
10	2.212	9.82	25.03	34.85	56.00	-21.15	QP
11	5.440	9.90	15.52	25.42	50.00	-24.58	Average
12	5.440	9.90	22.95	32.85	60.00	-27.15	QP

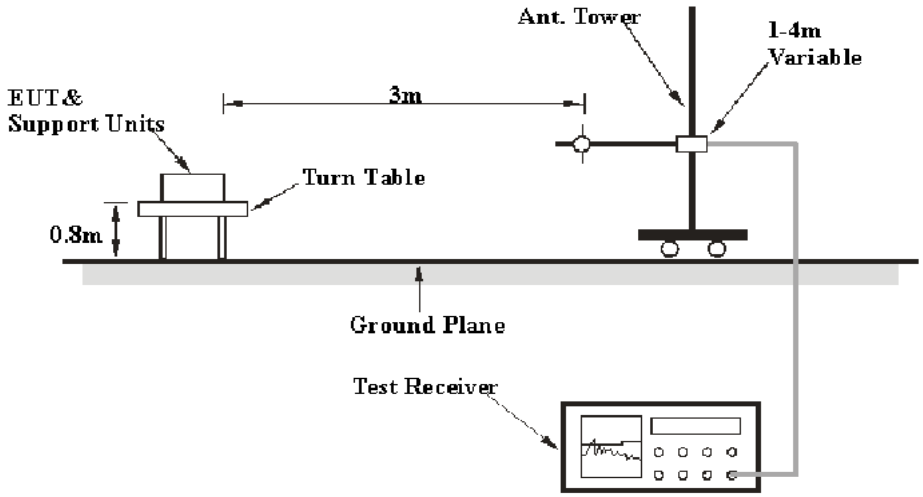
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

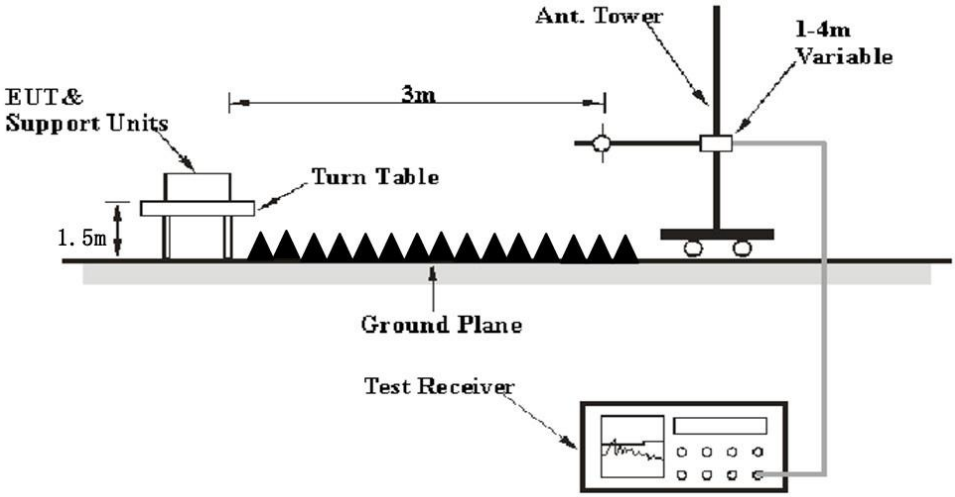
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	＞1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	26.2~29 ℃
Relative Humidity:	57~58 %
ATM Pressure:	101.1 kPa

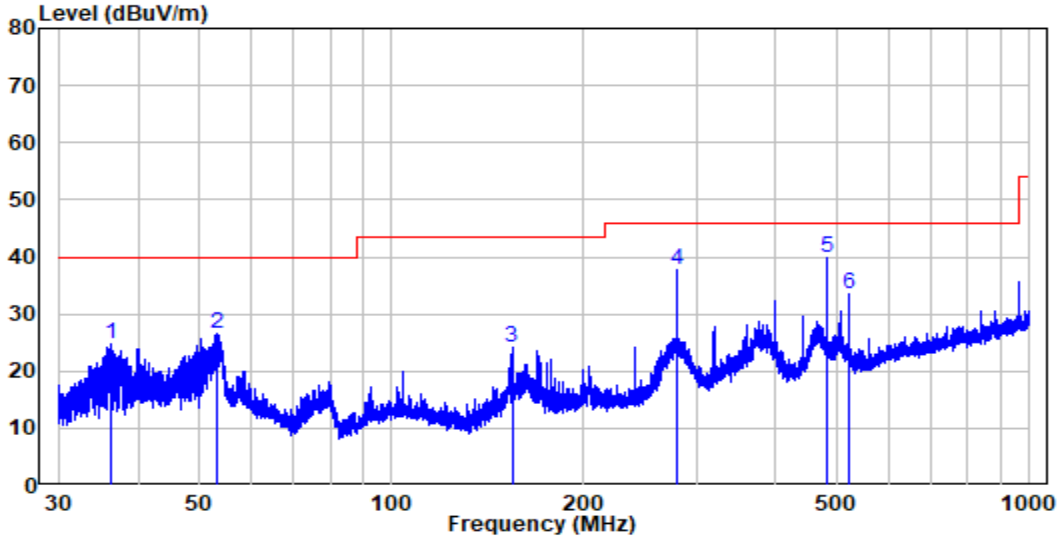
The testing was performed by Level Li on 2022-06-22 for below 1GHz, on 2022-06-22 and 2022-07-01 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case of X-axes orientation was recorded)

30MHz-1GHz: *(Worst case is 802.11b mode, low Channel)*

Note: when the test result of peak was below the limit of QP more than 6dB, just the peak value was recorded.

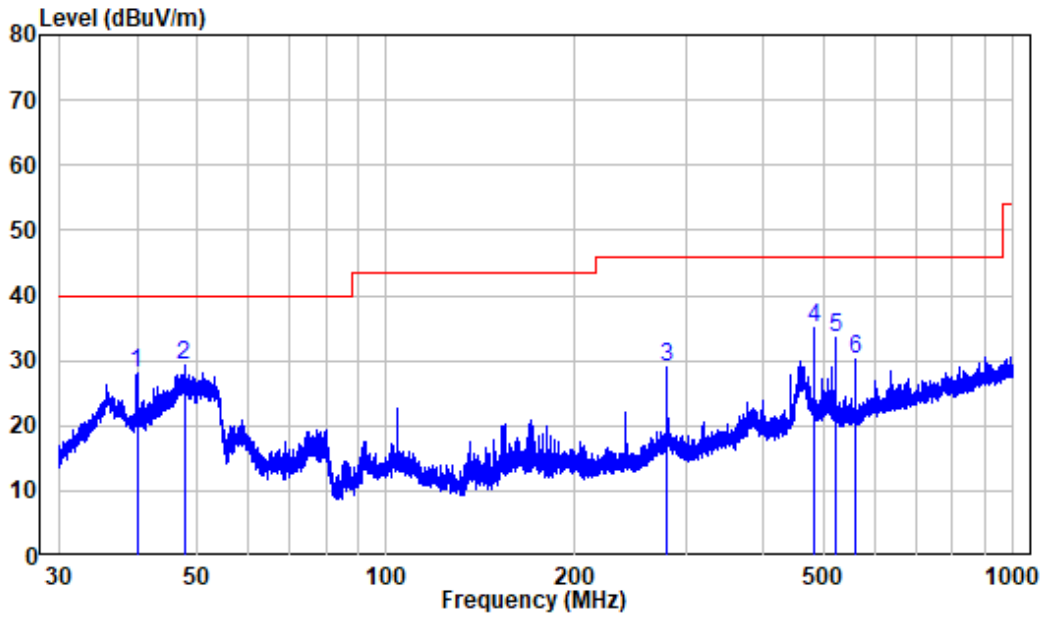
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : SZNS220330-11337E-RF
Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.206	-11.16	35.99	24.83	40.00	-15.17	Peak
2	53.271	-10.21	36.79	26.58	40.00	-13.42	Peak
3	154.346	-15.00	39.24	24.24	43.50	-19.26	Peak
4	280.024	-9.58	47.38	37.80	46.00	-8.20	Peak
5	480.107	-5.00	44.70	39.70	46.00	-6.30	Peak
6	519.976	-4.29	37.94	33.65	46.00	-12.35	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : SZNS220330-11337E-RF
Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.994	-10.34	38.52	28.18	40.00	-11.82	Peak
2	47.554	-10.00	39.41	29.41	40.00	-10.59	Peak
3	280.024	-9.58	38.62	29.04	46.00	-16.96	Peak
4	480.107	-5.00	39.88	34.88	46.00	-11.12	Peak
5	519.976	-4.29	37.79	33.50	46.00	-12.50	Peak
6	559.956	-4.04	34.28	30.24	46.00	-15.76	Peak

1-25 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11B, Low Channel									
2310	67.63	PK	321	1.7	H	-7.24	60.39	74	-13.61
2310	53.72	AV	321	1.7	H	-7.24	46.48	54	-7.52
2310	68.06	PK	147	1.3	V	-7.24	60.82	74	-13.18
2310	53.70	AV	147	1.3	V	-7.24	46.46	54	-7.54
2390	68.07	PK	348	2	H	-7.22	60.85	74	-13.15
2390	53.33	AV	348	2	H	-7.22	46.11	54	-7.89
2390	68.33	PK	271	1.6	V	-7.22	61.11	74	-12.89
2390	53.33	AV	271	1.6	V	-7.22	46.11	54	-7.89
4824	57.49	PK	290	1.6	H	-3.52	53.97	74	-20.03
4824	55.57	PK	82	1.6	V	-3.52	52.05	74	-21.95
802.11B, Middle Channel									
4874	55.53	PK	162	1.9	H	-3.42	52.11	74	-21.89
4874	55.60	PK	49	1.9	V	-3.42	52.18	74	-21.82
802.11B, High Channel									
2483.5	69.23	PK	24	2.3	H	-7.20	62.03	74	-11.97
2483.5	54.06	AV	24	2.3	H	-7.20	46.86	54	-7.14
2483.5	68.77	PK	329	1.1	V	-7.20	61.57	74	-12.43
2483.5	54.03	AV	329	1.1	V	-7.20	46.83	54	-7.17
2500	69.75	PK	296	2.3	H	-7.18	62.57	74	-11.43
2500	54.66	AV	296	2.3	H	-7.18	47.48	54	-6.52
2500	68.59	PK	345	2.2	V	-7.18	61.41	74	-12.59
2500	54.65	AV	345	2.2	V	-7.18	47.47	54	-6.53
4924	54.66	PK	82	1.7	H	-3.16	51.50	74	-22.50
4924	55.42	PK	32	1.7	V	-3.16	52.26	74	-21.74

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11G, Low Channel									
2310	67.87	PK	225	2.3	H	-7.24	60.63	74	-13.37
2310	53.76	AV	225	2.3	H	-7.24	46.52	54	-7.48
2310	67.98	PK	41	1.5	V	-7.24	60.74	74	-13.26
2310	53.73	AV	41	1.5	V	-7.24	46.49	54	-7.51
2390	68.25	PK	37	2.1	H	-7.22	61.03	74	-12.97
2390	53.43	AV	37	2.1	H	-7.22	46.21	54	-7.79
2390	68.10	PK	306	2	V	-7.22	60.88	74	-13.12
2390	53.37	AV	306	2	V	-7.22	46.15	54	-7.85
4824	54.31	PK	200	1.4	H	-3.52	50.79	74	-23.21
4824	54.20	PK	187	1.4	V	-3.52	50.68	74	-23.32
802.11G, Middle Channel									
4874	54.20	PK	296	1.3	H	-3.42	50.78	74	-23.22
4874	54.23	PK	314	1.3	V	-3.42	50.81	74	-23.19
802.11G, High Channel									
2483.5	69.58	PK	250	1.1	H	-7.20	62.38	74	-11.62
2483.5	54.40	AV	250	1.1	H	-7.20	47.2	54	-6.80
2483.5	69.32	PK	135	1.2	V	-7.20	62.12	74	-11.88
2483.5	54.24	AV	135	1.2	V	-7.20	47.04	54	-6.96
2500	68.83	PK	291	1.5	H	-7.18	61.65	74	-12.35
2500	54.94	AV	291	1.5	H	-7.18	47.76	54	-6.24
2500	68.99	PK	306	1.9	V	-7.18	61.81	74	-12.19
2500	54.73	AV	306	1.9	V	-7.18	47.55	54	-6.45
4924	53.75	PK	7	1.7	H	-3.16	50.59	74	-23.41
4924	53.46	PK	242	1.7	V	-3.16	50.30	74	-23.70

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11N20, Low Channel									
2310	68.16	PK	315	1.4	H	-7.24	60.92	74	-13.08
2310	53.77	AV	315	1.4	H	-7.24	46.53	54	-7.47
2310	68.89	PK	61	2.1	V	-7.24	61.65	74	-12.35
2310	53.75	AV	61	2.1	V	-7.24	46.51	54	-7.49
2390	68.53	PK	75	1.1	H	-7.22	61.31	74	-12.69
2390	53.43	AV	75	1.1	H	-7.22	46.21	54	-7.79
2390	68.61	PK	189	1.9	V	-7.22	61.39	74	-12.61
2390	53.41	AV	189	1.9	V	-7.22	46.19	54	-7.81
4824	54.17	PK	74	2.3	H	-3.52	50.65	74	-23.35
4824	54.13	PK	217	2.3	V	-3.52	50.61	74	-23.39
802.11N20, Middle Channel									
4874	54.76	PK	3	2.2	H	-3.42	51.34	74	-22.66
4874	54.16	PK	120	2.2	V	-3.42	50.74	74	-23.26
802.11N20, High Channel									
2483.5	69.63	PK	188	1.9	H	-7.20	62.43	74	-11.57
2483.5	54.59	AV	188	1.9	H	-7.20	47.39	54	-6.61
2483.5	68.84	PK	218	1.8	V	-7.20	61.64	74	-12.36
2483.5	54.81	AV	218	1.8	V	-7.20	47.61	54	-6.39
2500	69.34	PK	144	1.6	H	-7.18	62.16	74	-11.84
2500	55.05	AV	144	1.6	H	-7.18	47.87	54	-6.13
2500	68.42	PK	357	1.1	V	-7.18	61.24	74	-12.76
2500	54.79	AV	357	1.1	V	-7.18	47.61	54	-6.39
4924	54.03	PK	356	1.7	H	-3.16	50.87	74	-23.13
4924	54.61	PK	239	1.7	V	-3.16	51.45	74	-22.55

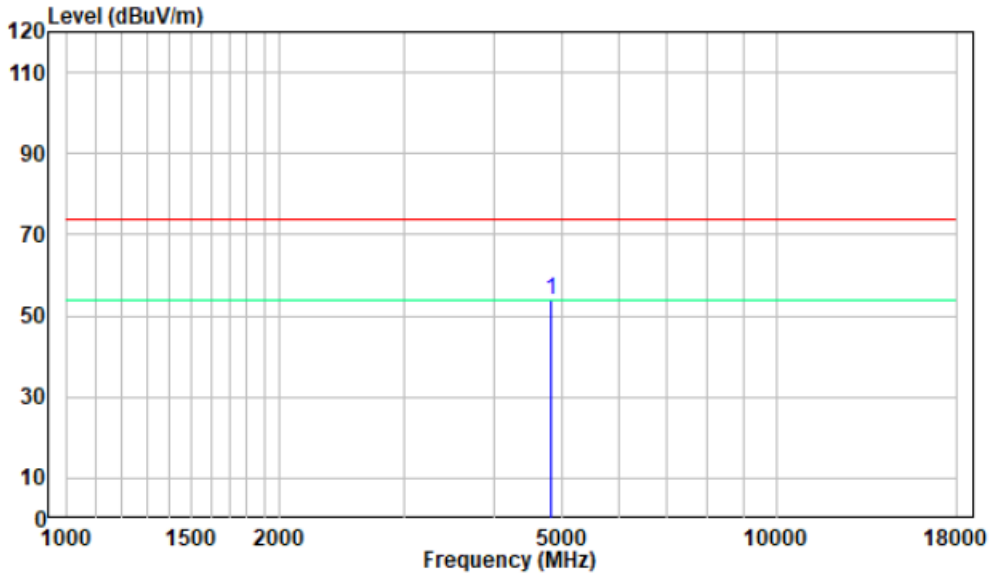
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/QP/AV		Height (m)	Polar (H/V)				
802.11N40, Low Channel									
2310	68.14	PK	10	1	H	-7.24	60.90	74	-13.10
2310	53.84	AV	10	1	H	-7.24	46.60	54	-7.40
2310	68.00	PK	121	1.9	V	-7.24	60.76	74	-13.24
2310	53.75	AV	121	1.9	V	-7.24	46.51	54	-7.49
2390	68.13	PK	202	1.3	H	-7.22	60.91	74	-13.09
2390	53.46	AV	202	1.3	H	-7.22	46.24	54	-7.76
2390	68.21	PK	94	1.8	V	-7.22	60.99	74	-13.01
2390	53.41	AV	94	1.8	V	-7.22	46.19	54	-7.81
4844	55.03	PK	281	2.2	H	-3.54	51.49	74	-22.51
4844	54.85	PK	79	2.2	V	-3.54	51.31	74	-22.69
802.11N40, Middle Channel									
4874	53.87	PK	10	1.6	H	-3.42	50.45	74	-23.55
4874	54.45	PK	242	1.6	V	-3.42	51.03	74	-22.97
802.11N40, High Channel									
2483.5	70.04	PK	213	2	H	-7.20	62.84	74	-11.16
2483.5	54.66	AV	213	2	H	-7.20	47.46	54	-6.54
2483.5	69.37	PK	64	1.3	V	-7.20	62.17	74	-11.83
2483.5	54.35	AV	64	1.3	V	-7.20	47.15	54	-6.85
2500	69.47	PK	247	1.6	H	-7.18	62.29	74	-11.71
2500	55.16	AV	247	1.6	H	-7.18	47.98	54	-6.02
2500	69.42	PK	345	1.4	V	-7.18	62.24	74	-11.76
2500	54.88	AV	345	1.4	V	-7.18	47.7	54	-6.30
4904	54.21	PK	61	1.7	H	-3.26	50.95	74	-23.05
4904	54.21	PK	82	1.7	V	-3.26	50.95	74	-23.05

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Absolute Level (Corrected Amplitude）= Factor + Reading
Margin = Absolute Level - Limit
The other spurious emission which is 20dB below to the limit or in noise floor level was not recorded.
The test result of peak was below the limit of average, so just the peak value was recorded.

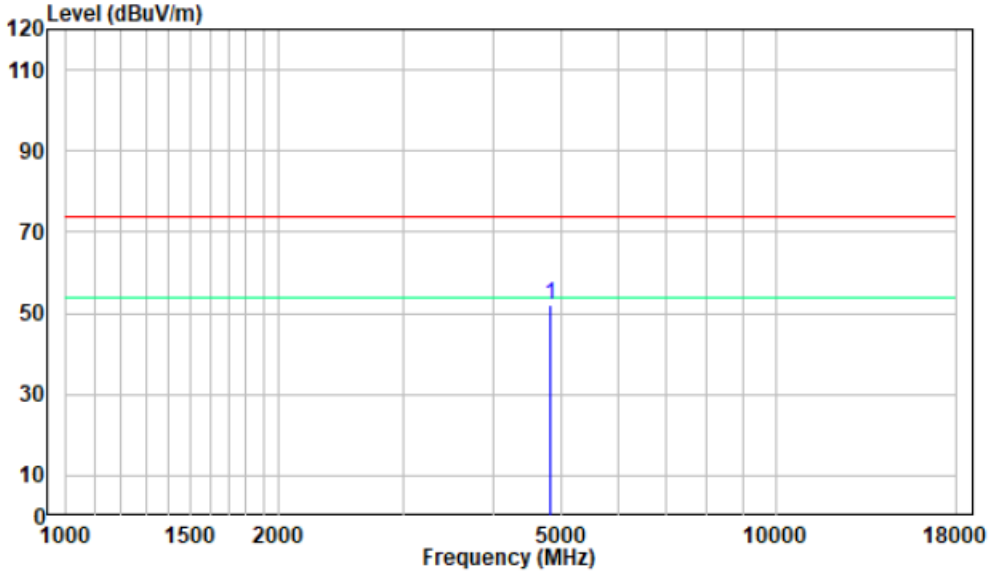
1-18 GHz:

Pre-scan Plots:

802.11 b Low Channel
Horizontal



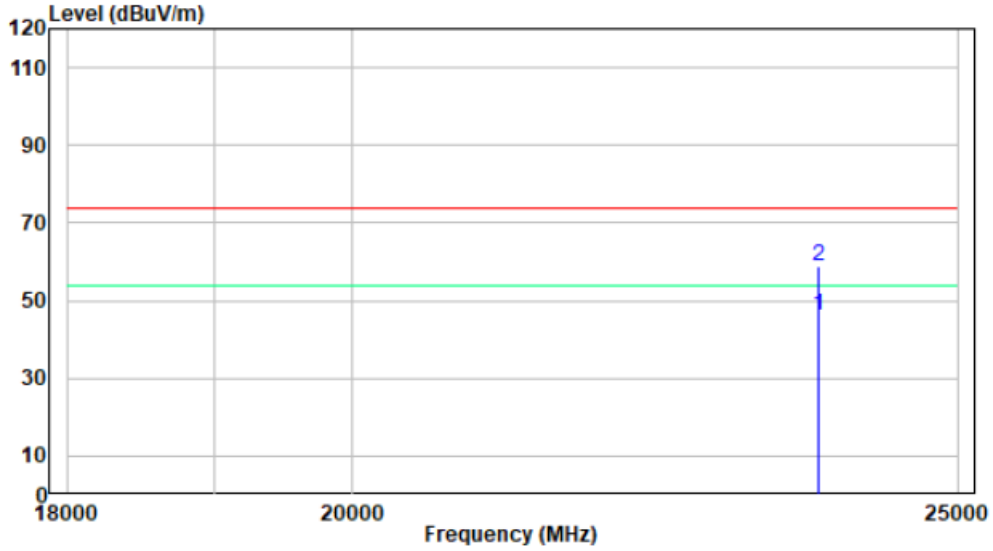
Vertical



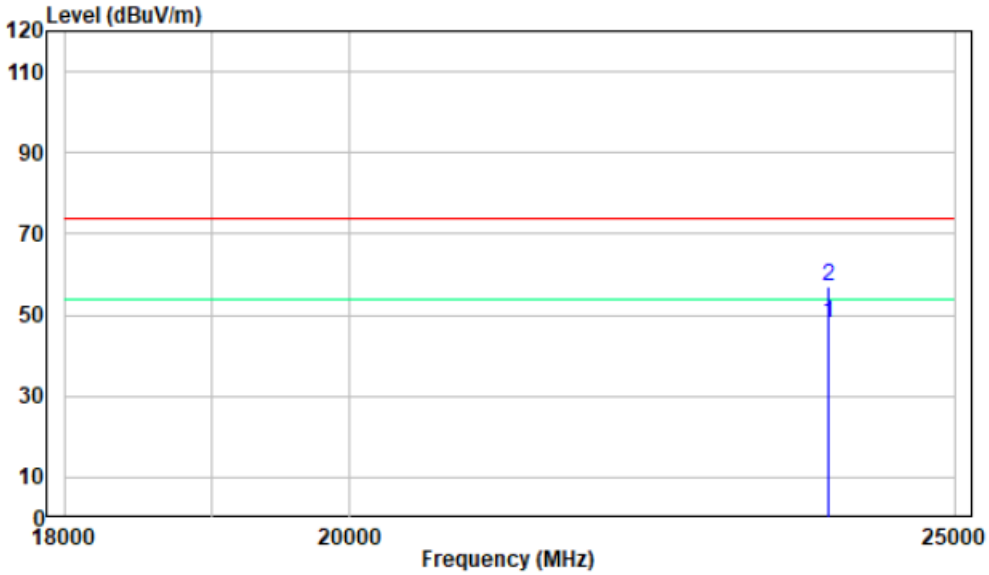
18 -25GHz:

Pre-scan Plots:

802.11 b Low Channel
Horizontal



Vertical



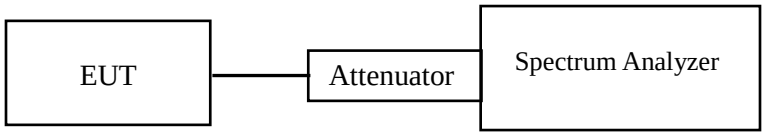
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	28.2 ℃
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling on 2022-07-04.

EUT operation mode: Transmitting

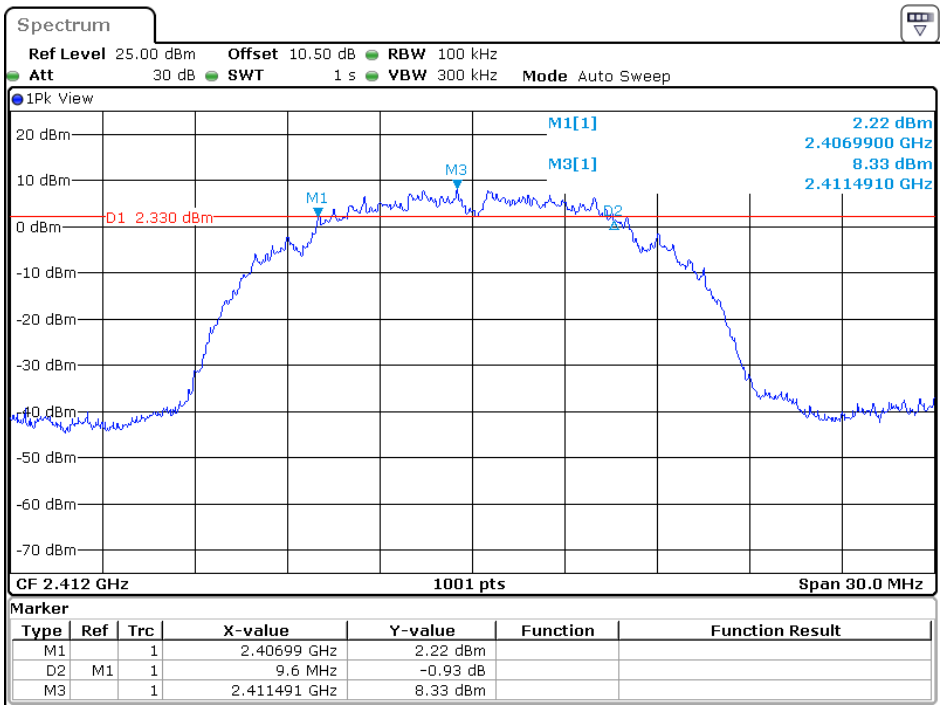
Please refer to the following table and plots.

EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode				
Low	2412	9.600	13.187	≥500
Middle	2437	9.600	13.147	≥500
High	2462	9.600	13.147	≥500
802.11g mode				
Low	2412	16.470	16.583	≥500
Middle	2437	16.470	16.583	≥500
High	2462	16.470	16.543	≥500
802.11n-HT20 mode				
Low	2412	17.400	17.343	≥500
Middle	2437	17.400	17.343	≥500
High	2462	17.400	17.383	≥500
802.11n-HT40 mode				
Low	2422	33.480	34.605	≥500
Middle	2437	33.480	34.605	≥500
High	2452	33.480	34.605	≥500

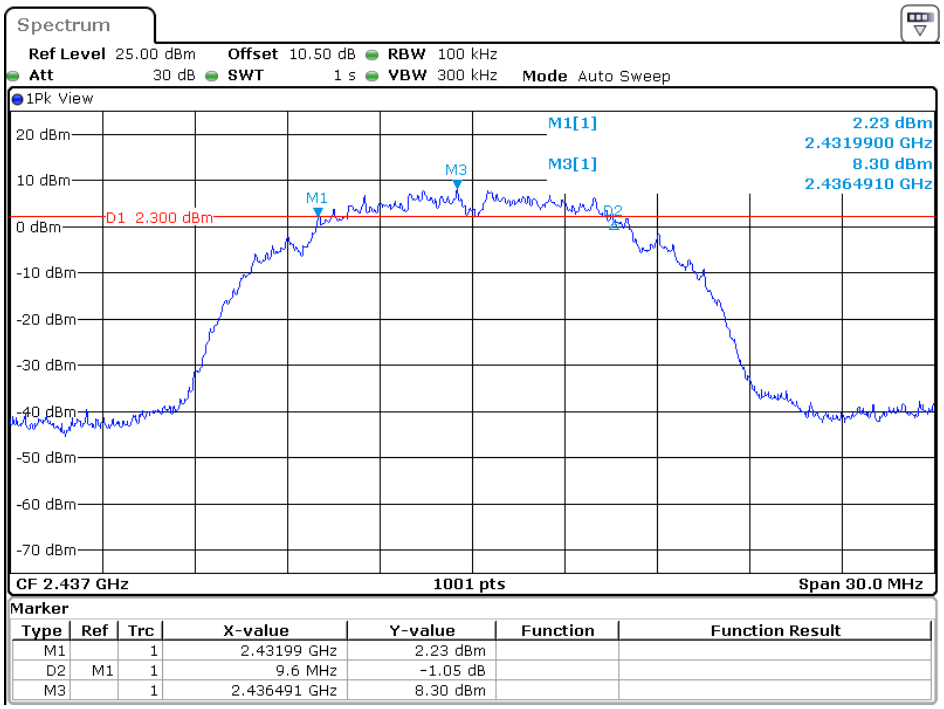
6 dB Emission Bandwidth

802.11b Low Channel



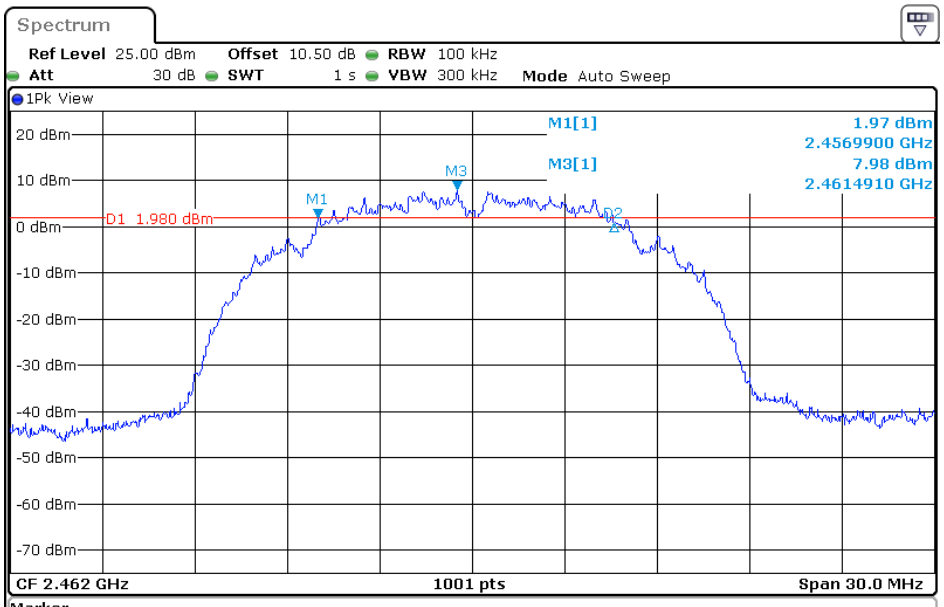
Date: 4.JUL.2022 19:03:40

802.11b Middle Channel



Date: 4.JUL.2022 19:10:56

802.11b High Channel

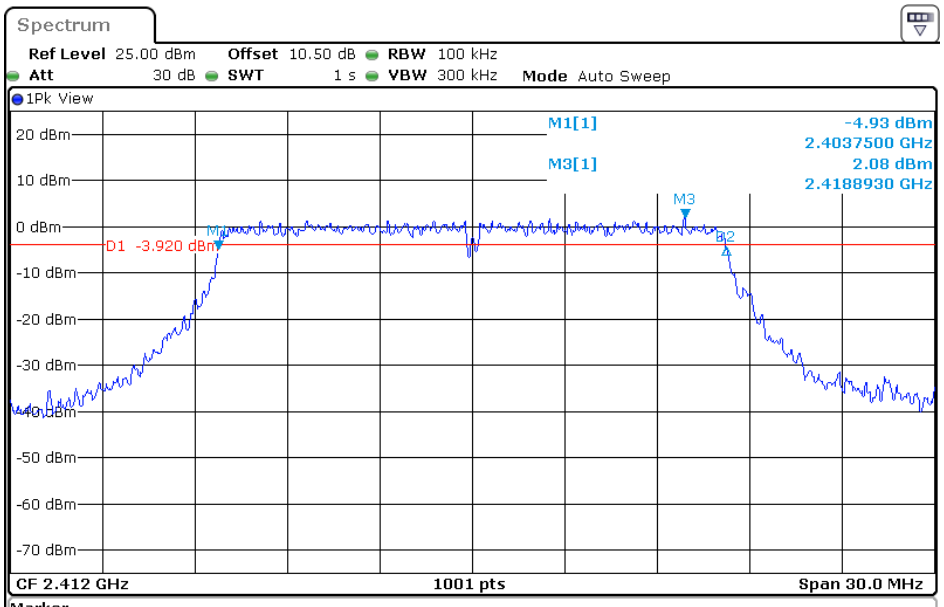


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45699 GHz	1.97 dBm		
D2	M1	1	9.6 MHz	-1.16 dB		
M3		1	2.461491 GHz	7.98 dBm		

Date: 4.JUL.2022 19:27:04

802.11g Low Channel

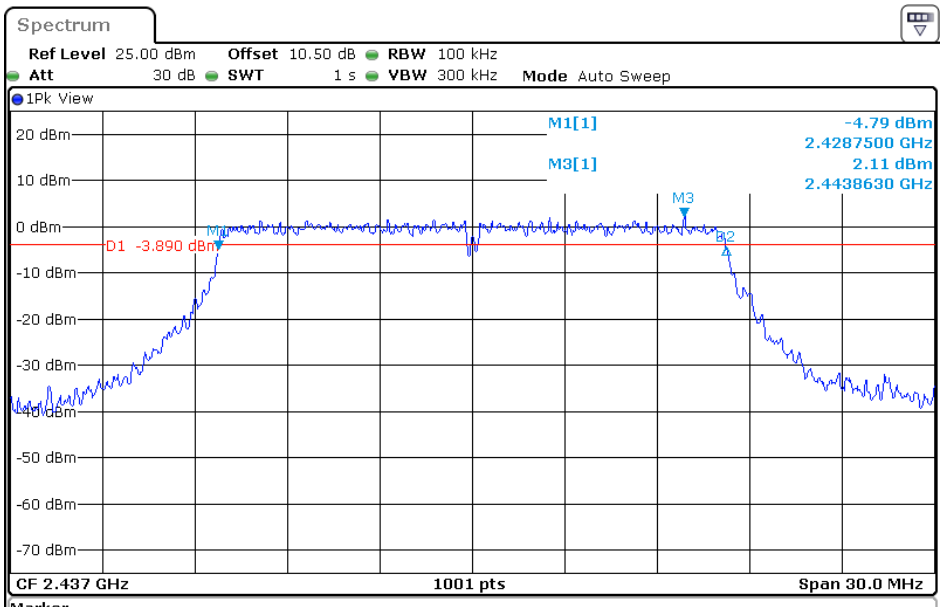


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40375 GHz	-4.93 dBm		
D2	M1	1	16.47 MHz	0.54 dB		
M3		1	2.418893 GHz	2.08 dBm		

Date: 4.JUL.2022 19:31:47

802.11g Middle Channel

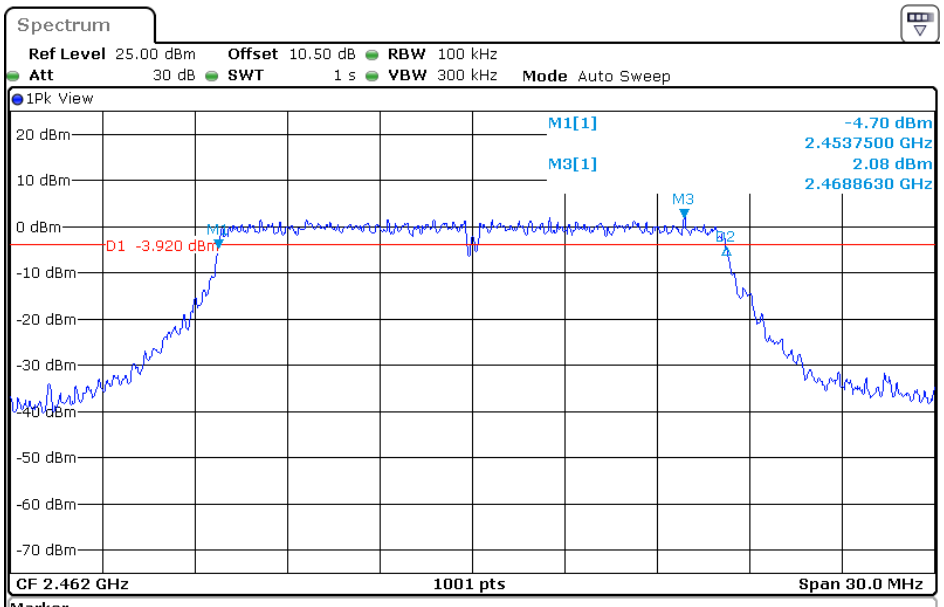


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42875 GHz	-4.79 dBm		
D2	M1	1	16.47 MHz	0.48 dB		
M3		1	2.443863 GHz	2.11 dBm		

Date: 4.JUL.2022 19:36:30

802.11g High Channel

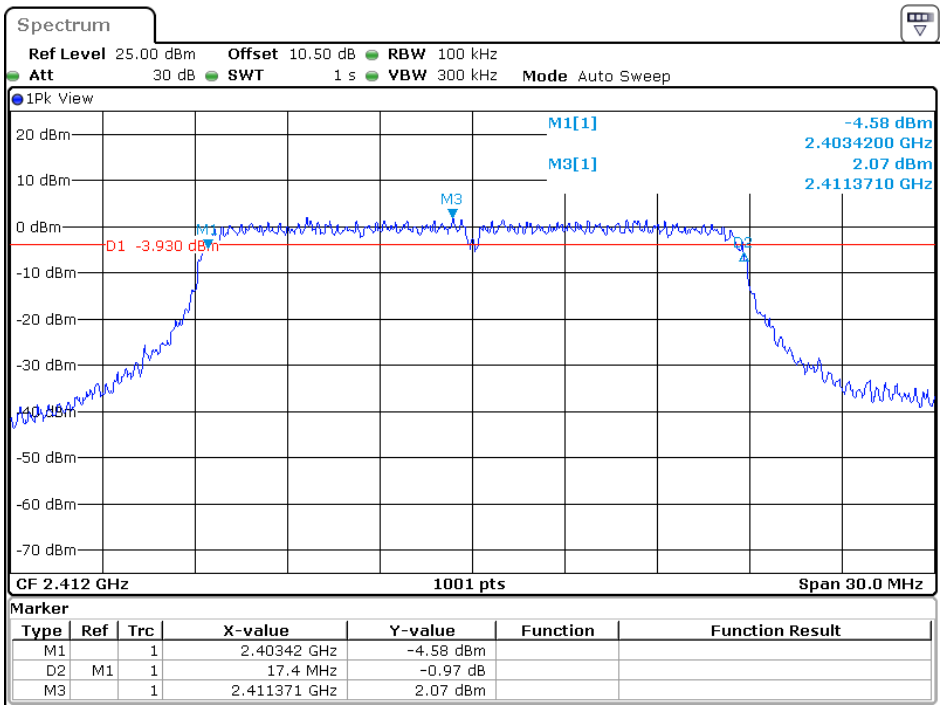


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45375 GHz	-4.70 dBm		
D2	M1	1	16.47 MHz	0.44 dB		
M3		1	2.468863 GHz	2.08 dBm		

Date: 4.JUL.2022 19:59:47

802.11n-HT20 Low Channel

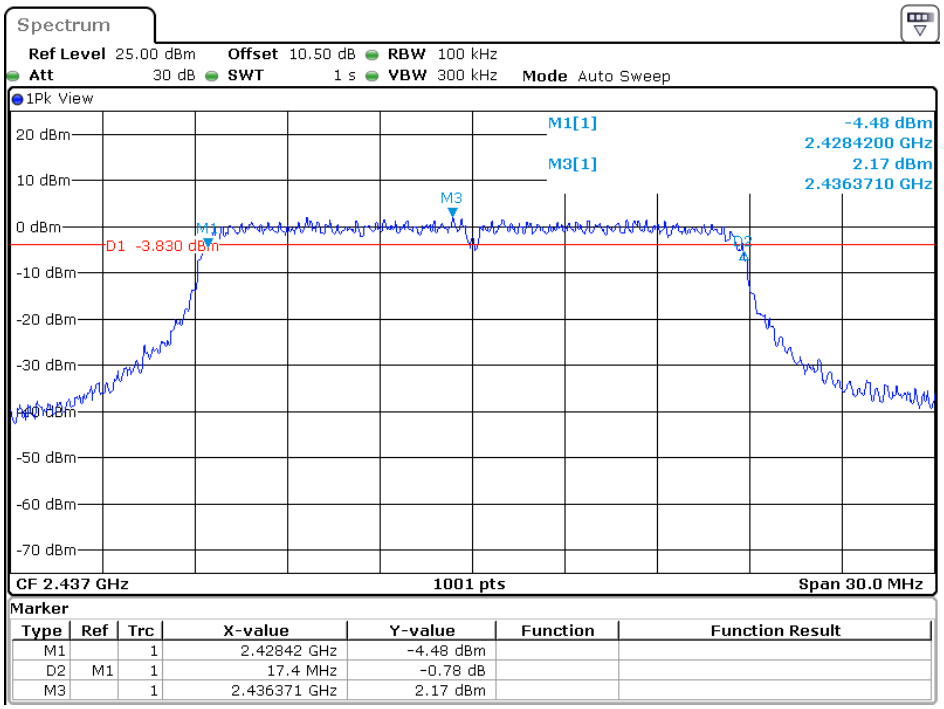


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40342 GHz	-4.58 dBm		
D2	M1	1	17.4 MHz	-0.97 dB		
M3		1	2.411371 GHz	2.07 dBm		

Date: 4.JUL.2022 20:04:59

802.11n-HT20 Middle Channel

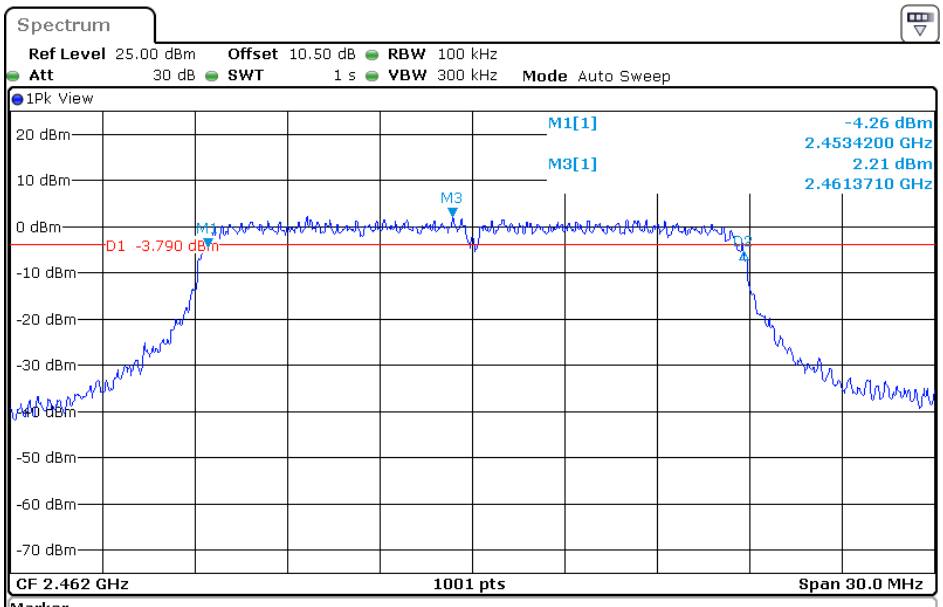


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42842 GHz	-4.48 dBm		
D2	M1	1	17.4 MHz	-0.78 dB		
M3		1	2.436371 GHz	2.17 dBm		

Date: 4.JUL.2022 20:09:43

802.11n-HT20 High Channel

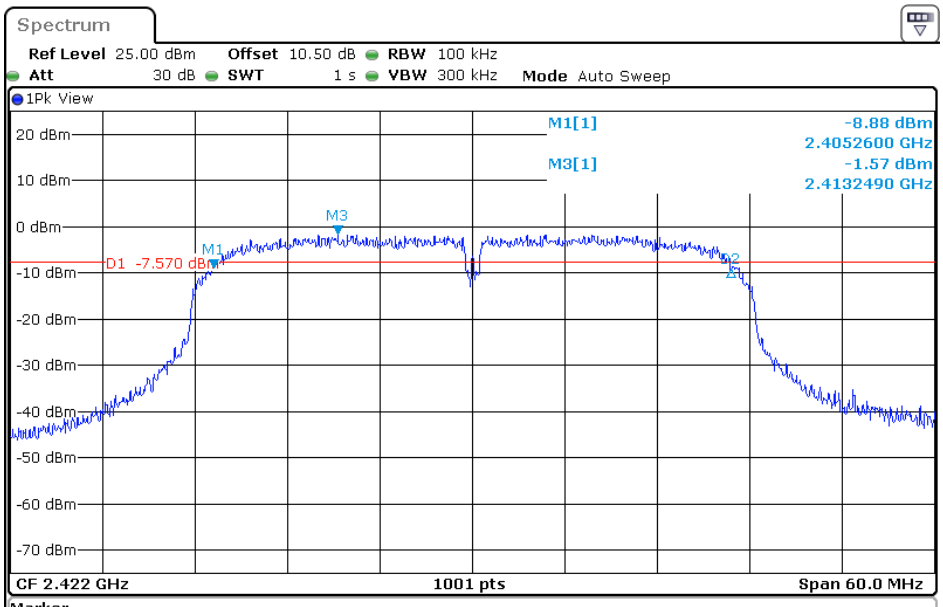


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45342 GHz	-4.26 dBm		
D2	M1	1	17.4 MHz	-1.05 dB		
M3		1	2.461371 GHz	2.21 dBm		

Date: 4.JUL.2022 20:14:46

802.11n-HT40 Low Channel

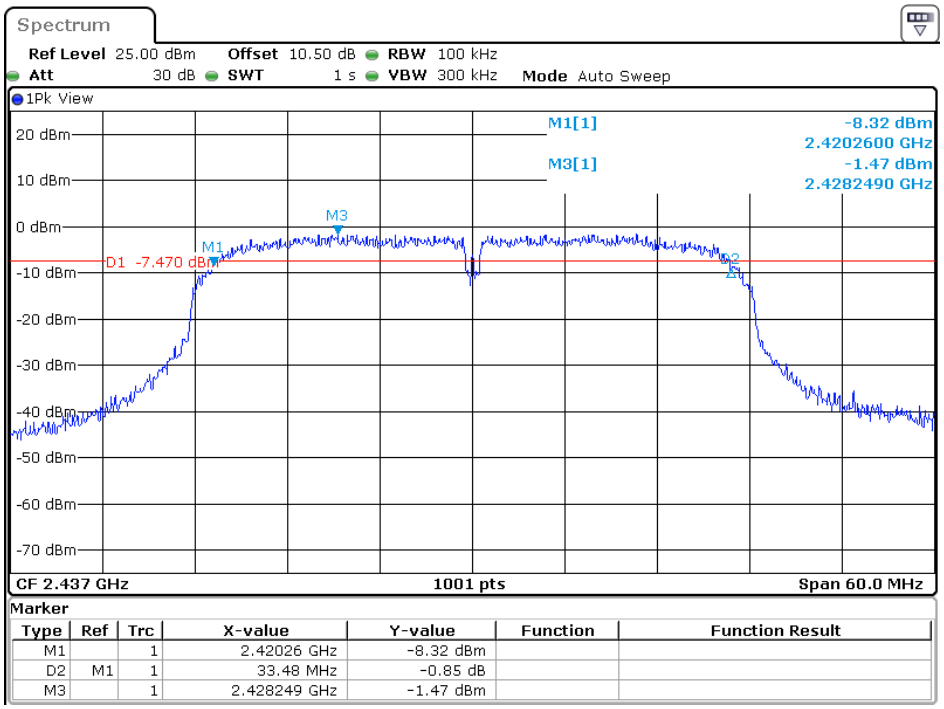


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40526 GHz	-8.88 dBm		
D2	M1	1	33.48 MHz	-0.22 dB		
M3		1	2.413249 GHz	-1.57 dBm		

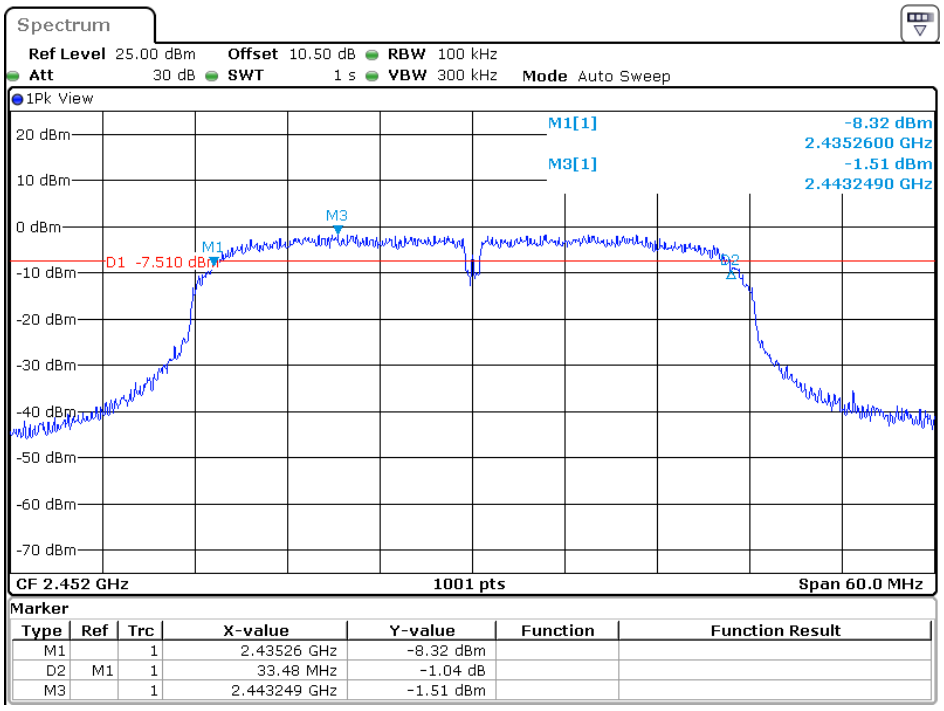
Date: 4.JUL.2022 20:21:40

802.11n-HT40 Middle Channel



Date: 4.JUL.2022 20:29:49

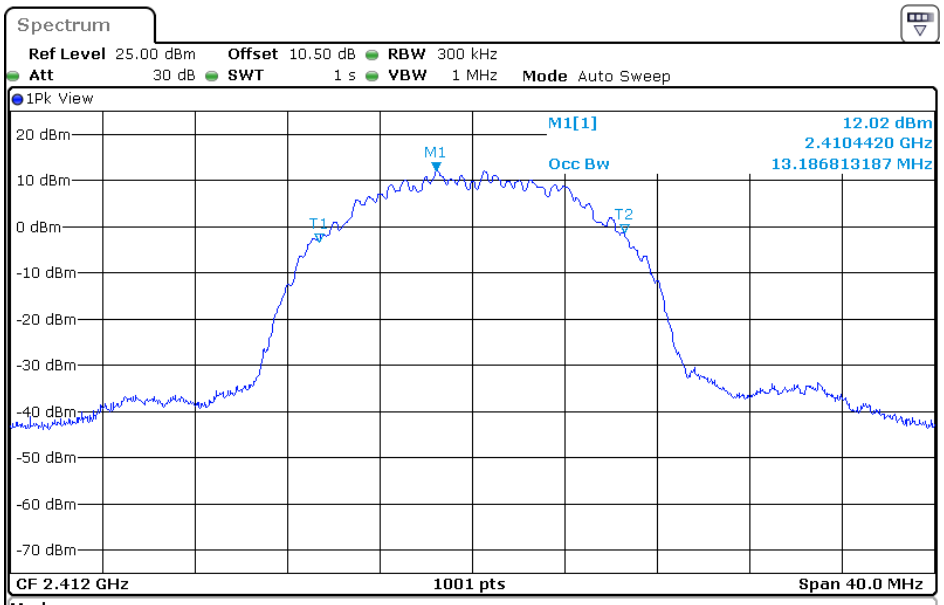
802.11n-HT40 High Channel



Date: 4.JUL.2022 20:33:51

99% Emission Bandwidth

802.11b Low Channel

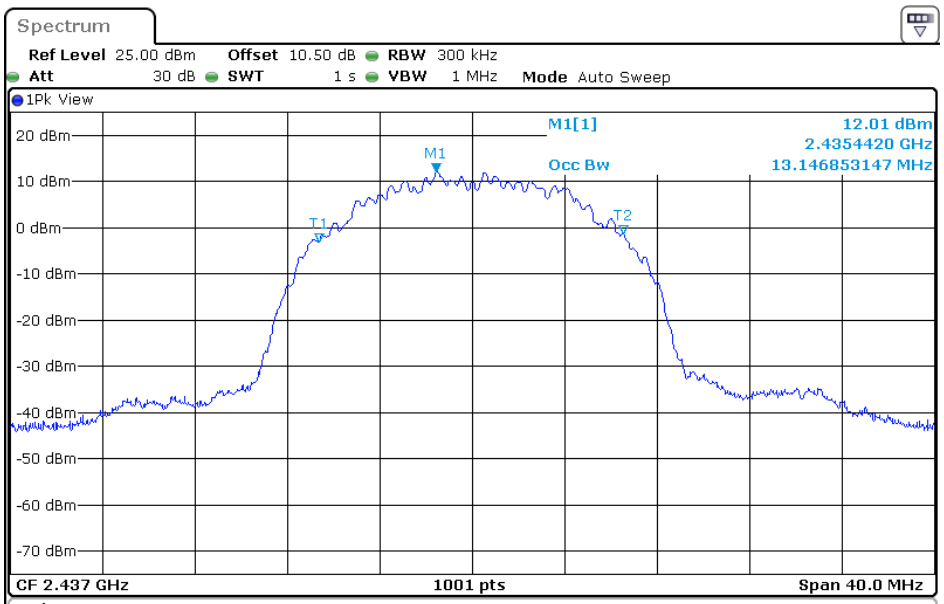


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.410442 GHz	12.02 dBm		
T1		1	2.4053666 GHz	-3.24 dBm	Occ Bw	13.186813187 MHz
T2		1	2.4185534 GHz	-1.37 dBm		

Date: 4.JUL.2022 19:03:10

802.11b Middle Channel

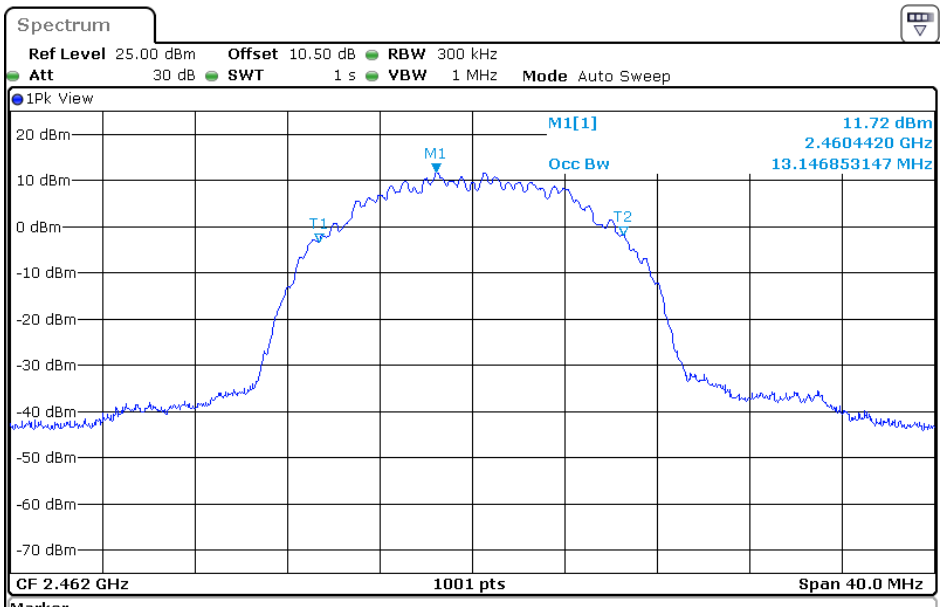


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.435442 GHz	12.01 dBm		
T1		1	2.4303666 GHz	-3.23 dBm	Occ Bw	13.146853147 MHz
T2		1	2.4435135 GHz	-1.36 dBm		

Date: 4.JUL.2022 19:10:26

802.11b High Channel

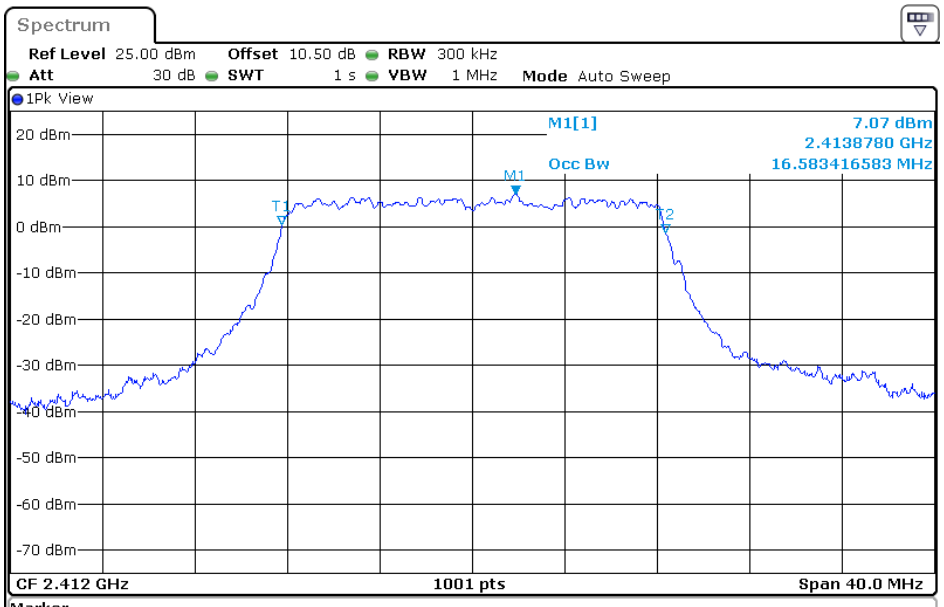


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.460442 GHz	11.72 dBm		
T1		1	2.4553666 GHz	-3.44 dBm	Occ Bw	13.146853147 MHz
T2		1	2.4685135 GHz	-1.72 dBm		

Date: 4.JUL.2022 19:26:35

802.11g Low Channel

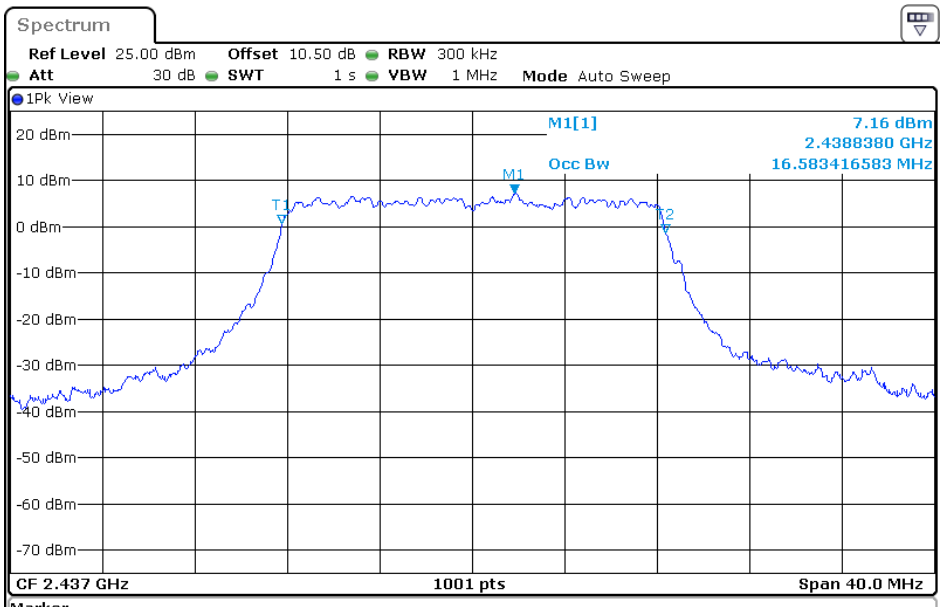


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.413878 GHz	7.07 dBm		
T1		1	2.4037682 GHz	0.37 dBm	Occ Bw	16.583416583 MHz
T2		1	2.4203516 GHz	-1.32 dBm		

Date: 4.JUL.2022 19:31:17

802.11g Middle Channel

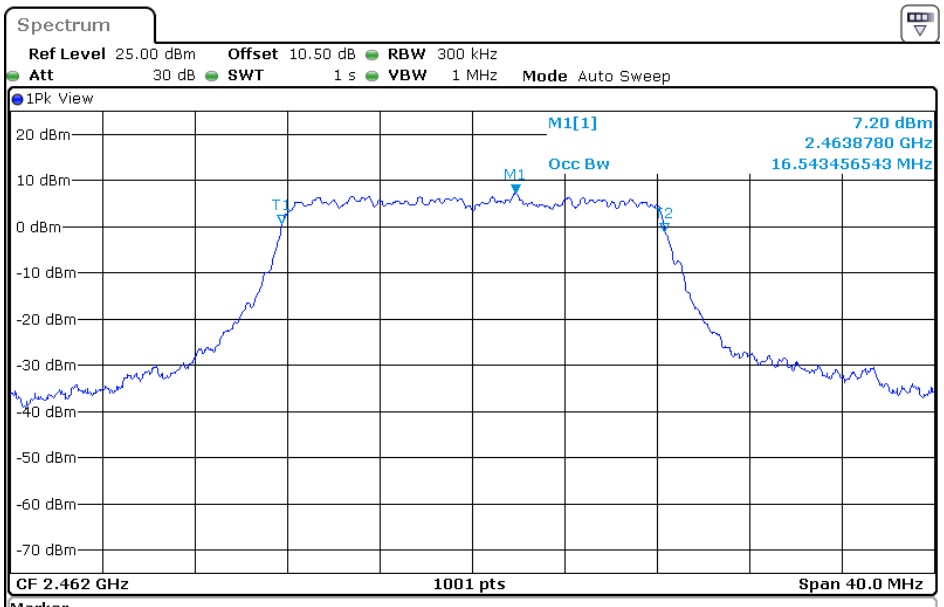


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.438838 GHz	7.16 dBm		
T1		1	2.4287682 GHz	0.69 dBm	Occ Bw	16.583416583 MHz
T2		1	2.4453516 GHz	-1.43 dBm		

Date: 4.JUL.2022 19:36:00

802.11g High Channel

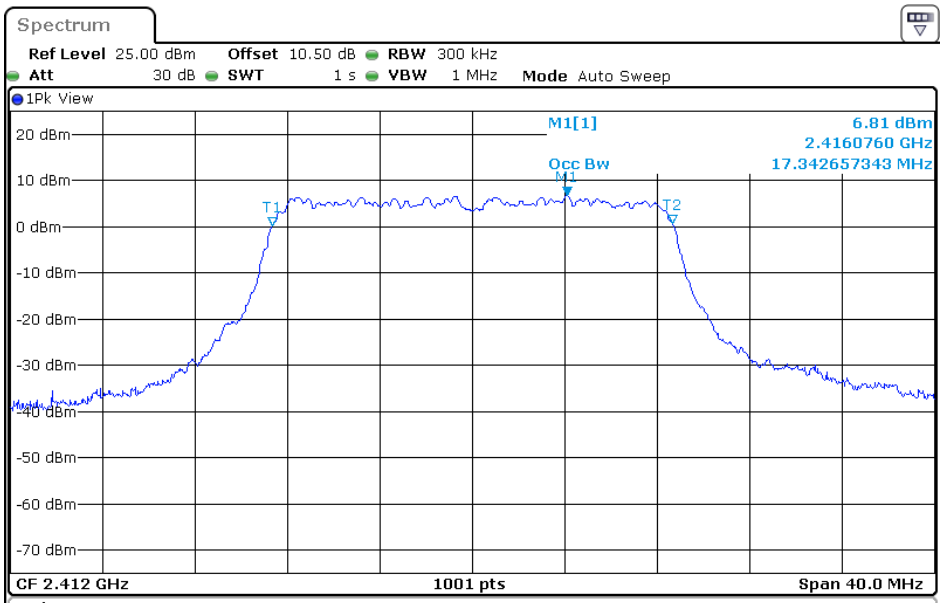


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.463878 GHz	7.20 dBm		
T1		1	2.4537682 GHz	0.69 dBm	Occ Bw	16.543456543 MHz
T2		1	2.4703117 GHz	-0.98 dBm		

Date: 4.JUL.2022 19:59:17

802.11n-HT20 Low Channel

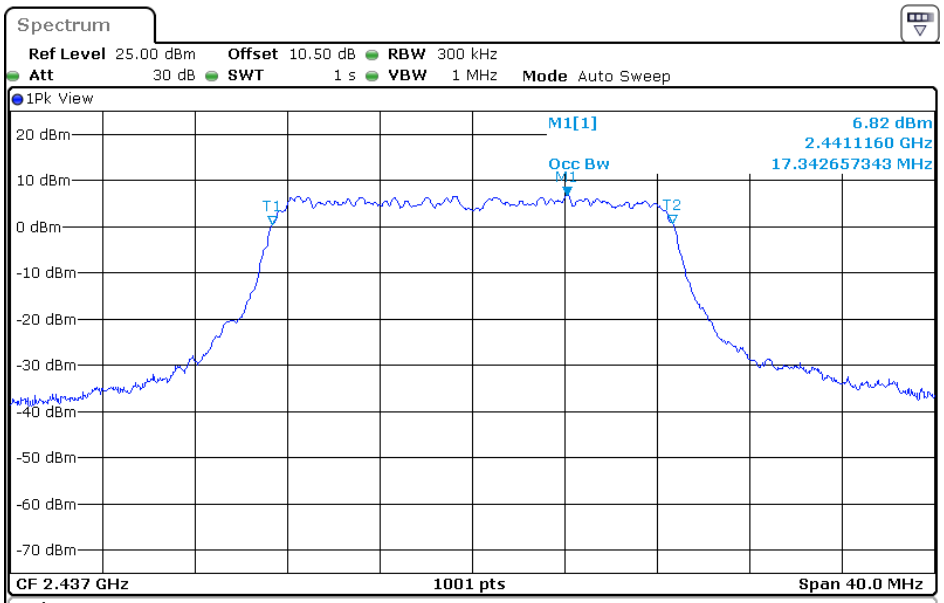


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.416076 GHz	6.81 dBm		
T1		1	2.4033287 GHz	0.32 dBm	Occ Bw	17.342657343 MHz
T2		1	2.4206713 GHz	0.79 dBm		

Date: 4.JUL.2022 20:04:30

802.11n-HT20 Middle Channel

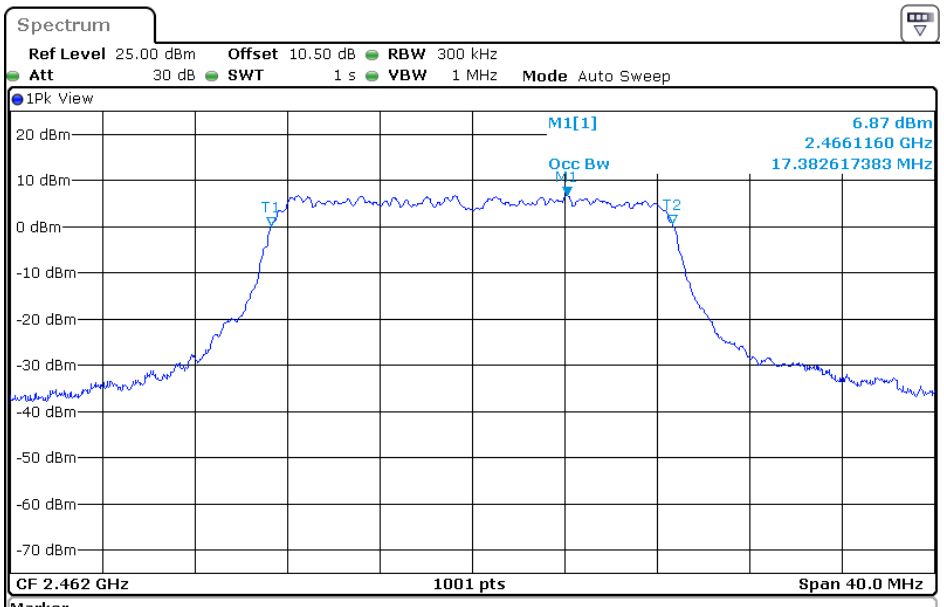


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.441116 GHz	6.82 dBm		
T1		1	2.4283287 GHz	0.42 dBm	Occ Bw	17.342657343 MHz
T2		1	2.4456713 GHz	0.75 dBm		

Date: 4.JUL.2022 20:09:13

802.11n-HT20 High Channel

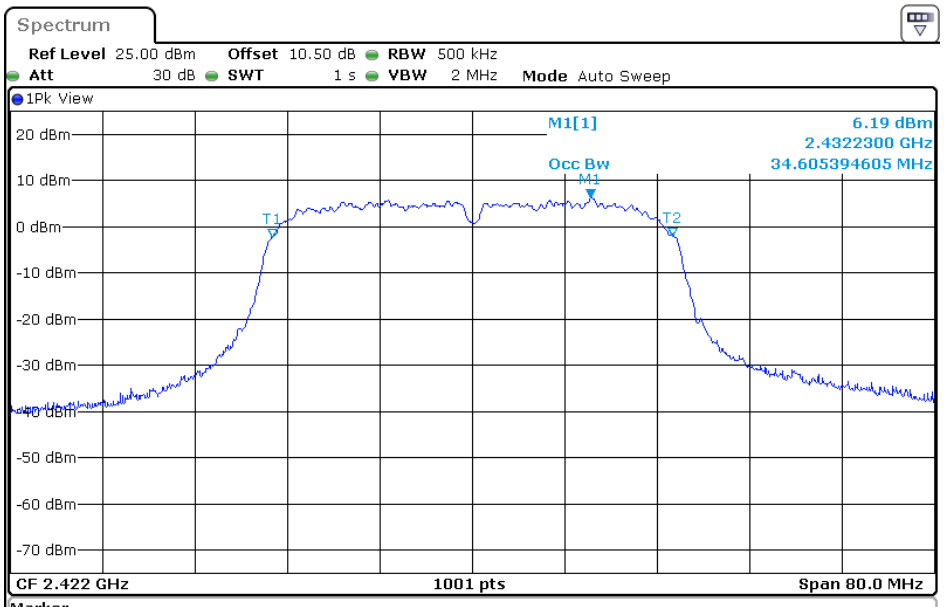


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.466116 GHz	6.87 dBm		
T1		1	2.4532887 GHz	0.16 dBm	Occ Bw	17.382617383 MHz
T2		1	2.4706713 GHz	0.71 dBm		

Date: 4.JUL.2022 20:14:17

802.11n-HT40 Low Channel

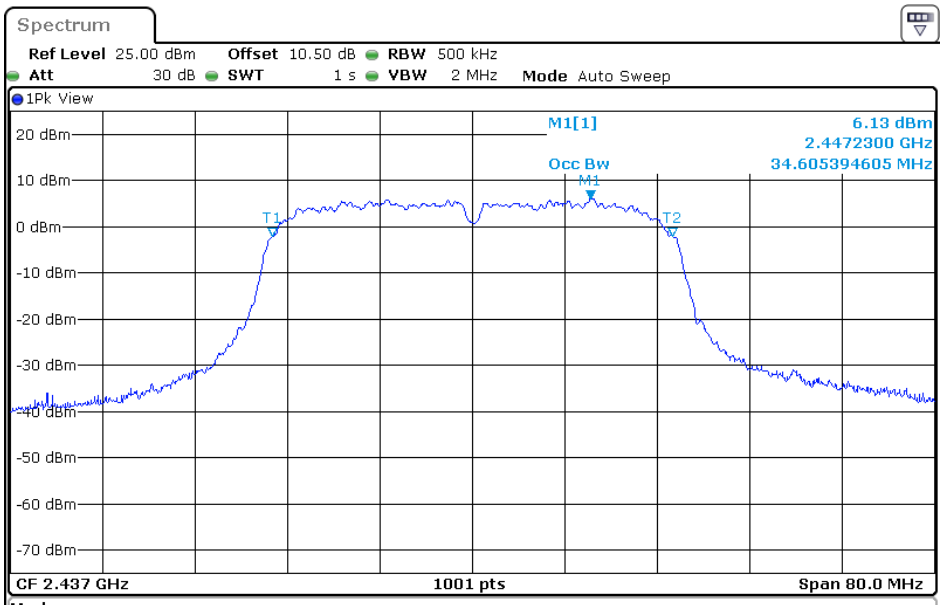


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43223 GHz	6.19 dBm		
T1		1	2.4047373 GHz	-2.41 dBm	Occ Bw	34.605394605 MHz
T2		1	2.4393427 GHz	-1.97 dBm		

Date: 4.JUL.2022 20:21:11

802.11n-HT40 Middle Channel

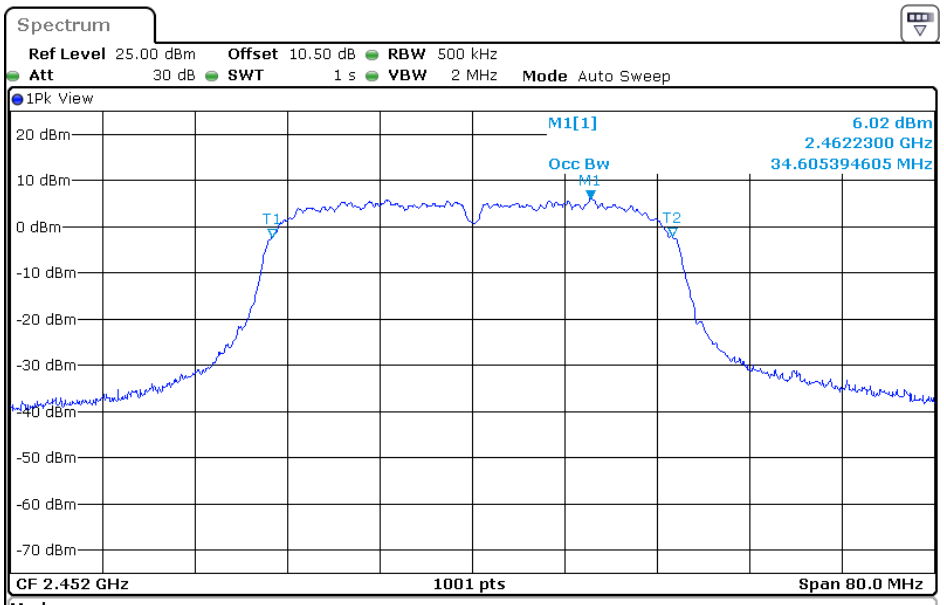


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44723 GHz	6.13 dBm		
T1		1	2.4197373 GHz	-2.20 dBm	Occ Bw	34.605394605 MHz
T2		1	2.4543427 GHz	-2.06 dBm		

Date: 4.JUL.2022 20:29:20

802.11n-HT40 High Channel



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46223 GHz	6.02 dBm		
T1		1	2.4347373 GHz	-2.24 dBm	Occ Bw	34.605394605 MHz
T2		1	2.4693427 GHz	-2.18 dBm		

Date: 4.JUL.2022 20:33:22

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

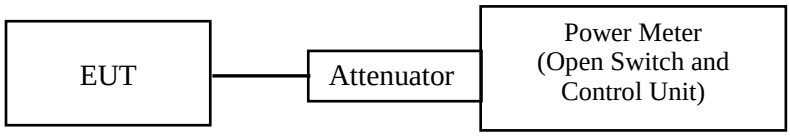
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

c. Place the EUT on a bench and set it in transmitting mode.

d. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.

e. Add a correction factor to the display.



Note: the Open Switch and Control Unit have a built-in power sensor.

Test Data

Environmental Conditions

Temperature:	28.2 ℃
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling on 2022-07-04.

EUT operation mode: Transmitting

Test Result: Compliant.

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b mode			
Low	2412	23.79	30
Middle	2437	23.75	30
High	2462	23.46	30
802.11g mode			
Low	2412	23.30	30
Middle	2437	23.41	30
High	2462	23.45	30
802.11n HT20 mode			
Low	2412	23.52	30
Middle	2437	23.56	30
High	2462	23.69	30
802.11n H420 mode			
Low	2422	23.39	30
Middle	2437	23.39	30
High	2452	23.38	30

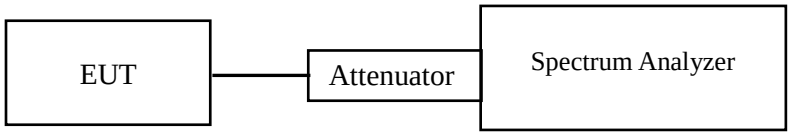
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

f. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
g. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
h. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
i. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
j. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	28.2 ℃
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

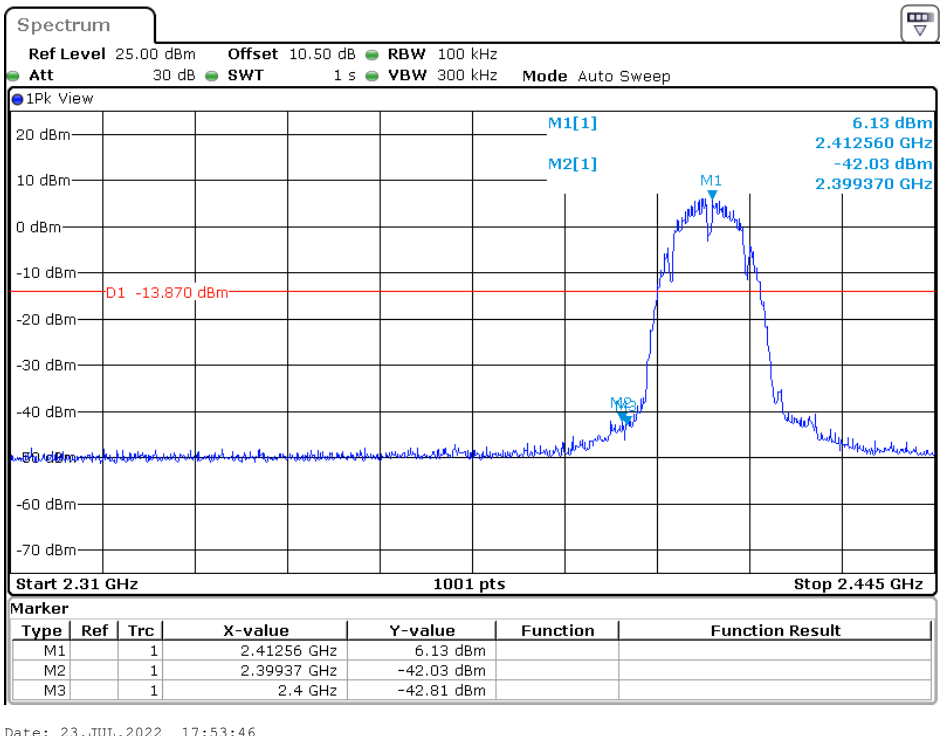
The testing was performed by Roger Ling on 2022-07-23.

EUT operation mode: Transmitting

Test Result: Compliant.

Please refer to the following plots.

802.11b: Band Edge, Left Side

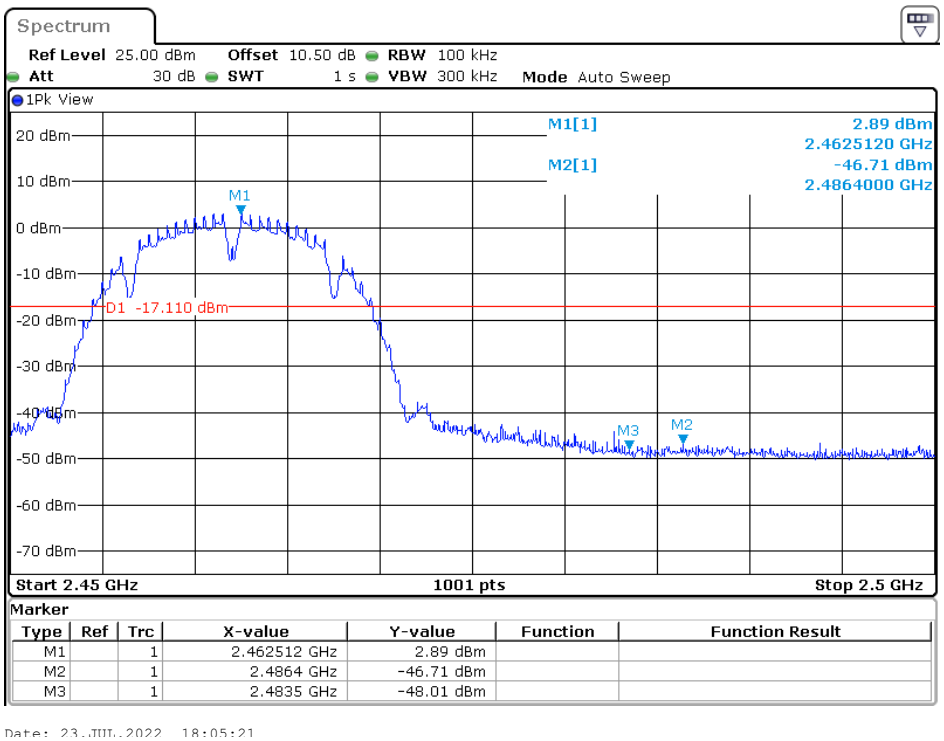


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41256 GHz	6.13 dBm		
M2		1	2.39937 GHz	-42.03 dBm		
M3		1	2.4 GHz	-42.81 dBm		

Date: 23.JUL.2022 17:53:46

802.11b: Band Edge, Right Side

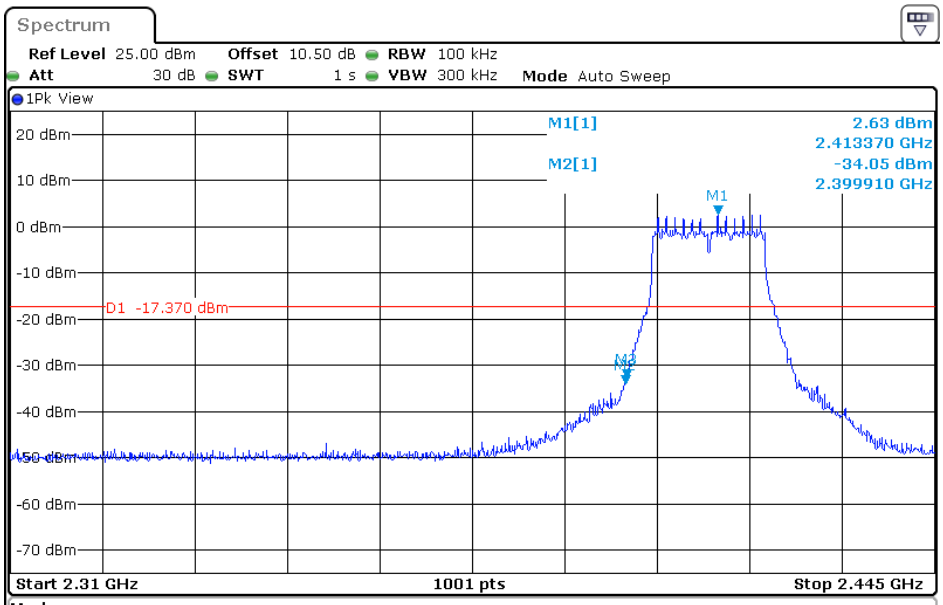


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.462512 GHz	2.89 dBm		
M2		1	2.4864 GHz	-46.71 dBm		
M3		1	2.4835 GHz	-48.01 dBm		

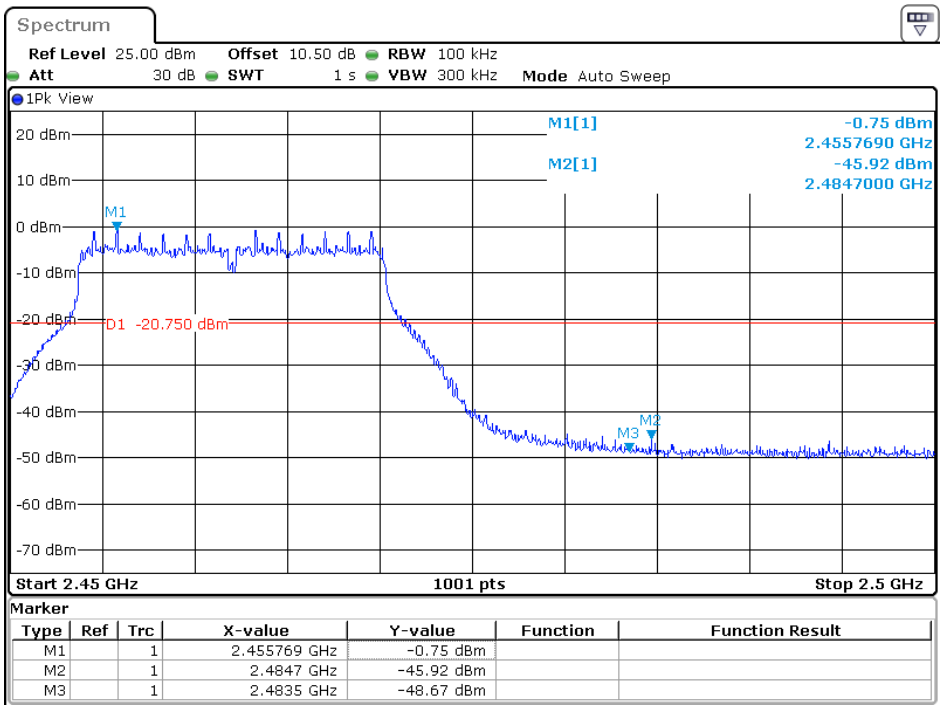
Date: 23.JUL.2022 18:05:21

802.11g: Band Edge, Left Side



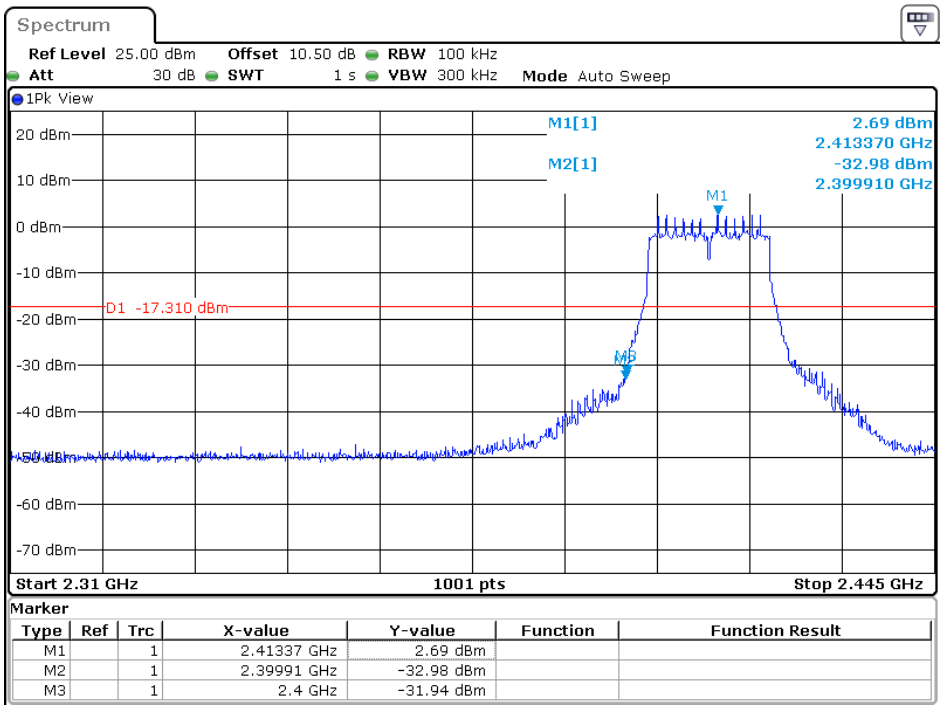
Date: 23.JUL.2022 18:26:18

802.11g: Band Edge, Right Side



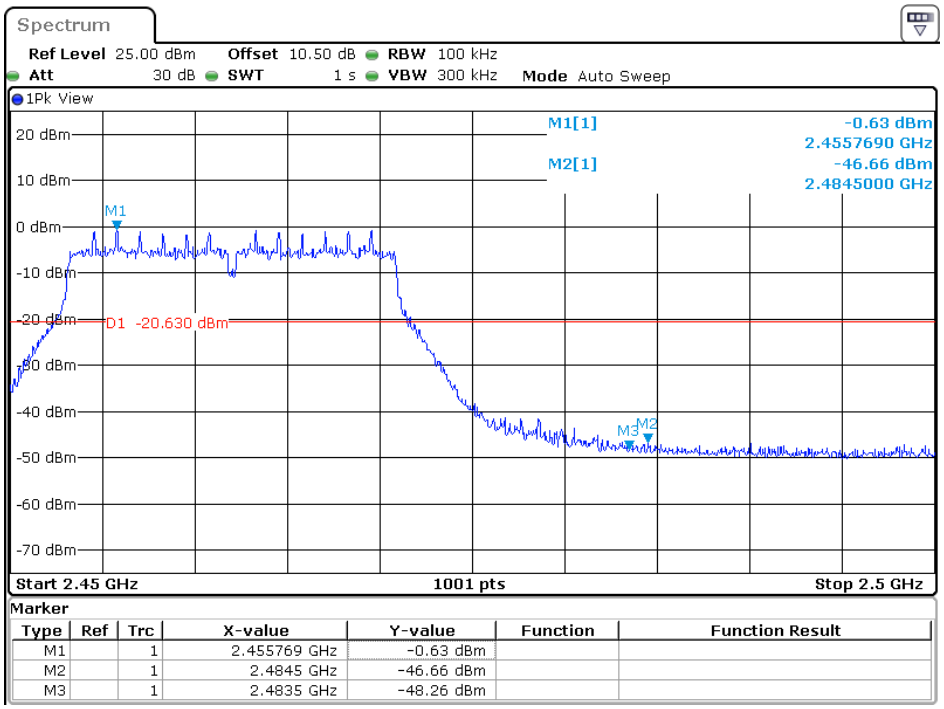
Date: 23.JUL.2022 18:29:19

802.11n-HT20: Band Edge, Left Side



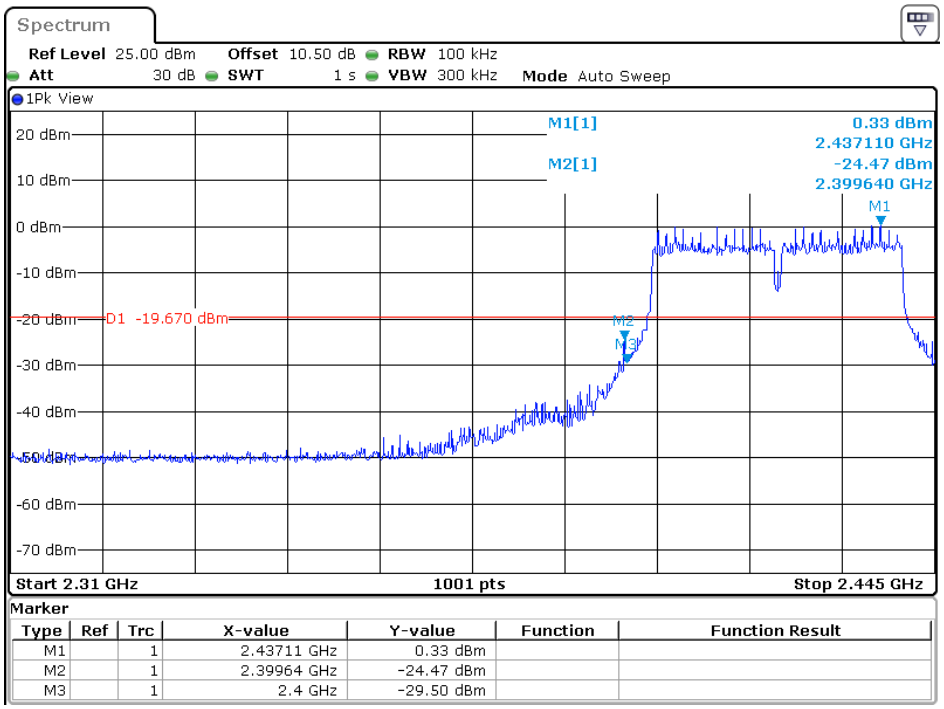
Date: 23.JUL.2022 18:32:31

802.11n-HT20: Band Edge, Right Side



Date: 23.JUL.2022 18:31:08

802.11n-HT40: Band Edge, Left Side

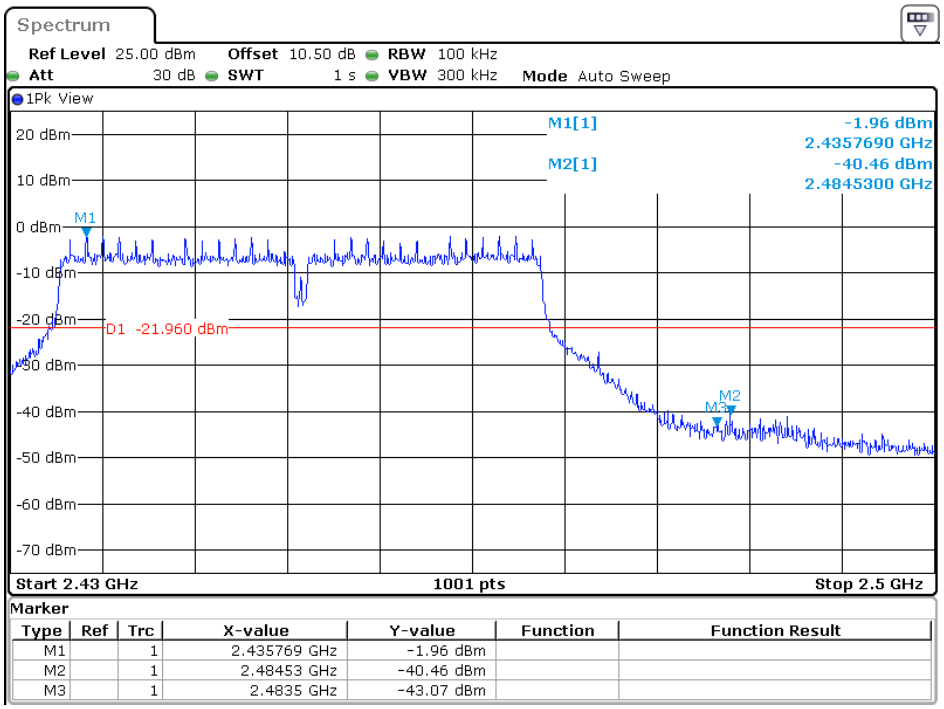


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43711 GHz	0.33 dBm		
M2		1	2.39964 GHz	-24.47 dBm		
M3		1	2.4 GHz	-29.50 dBm		

Date: 23.JUL.2022 18:34:43

802.11n-HT40: Band Edge, Right Side



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.435769 GHz	-1.96 dBm		
M2		1	2.48453 GHz	-40.46 dBm		
M3		1	2.4835 GHz	-43.07 dBm		

Date: 23.JUL.2022 18:36:08

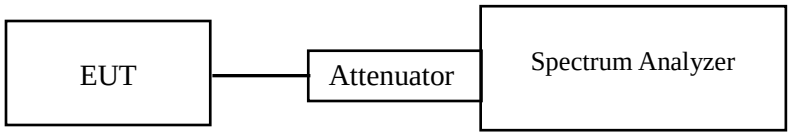
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

k. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
l. Set the RBW to: 3kHz≤ RBW≤100 kHz.
m. Set the VBW ≥ 3×RBW.
n. Set the span to 1.5 times the DTS bandwidth.
o. Detector = peak.
p. Sweep time = auto couple.
q. Trace mode = max hold.
r. Allow trace to fully stabilize.
s. Use the peak marker function to determine the maximum amplitude level within the RBW.
t. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	28.2 ℃
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

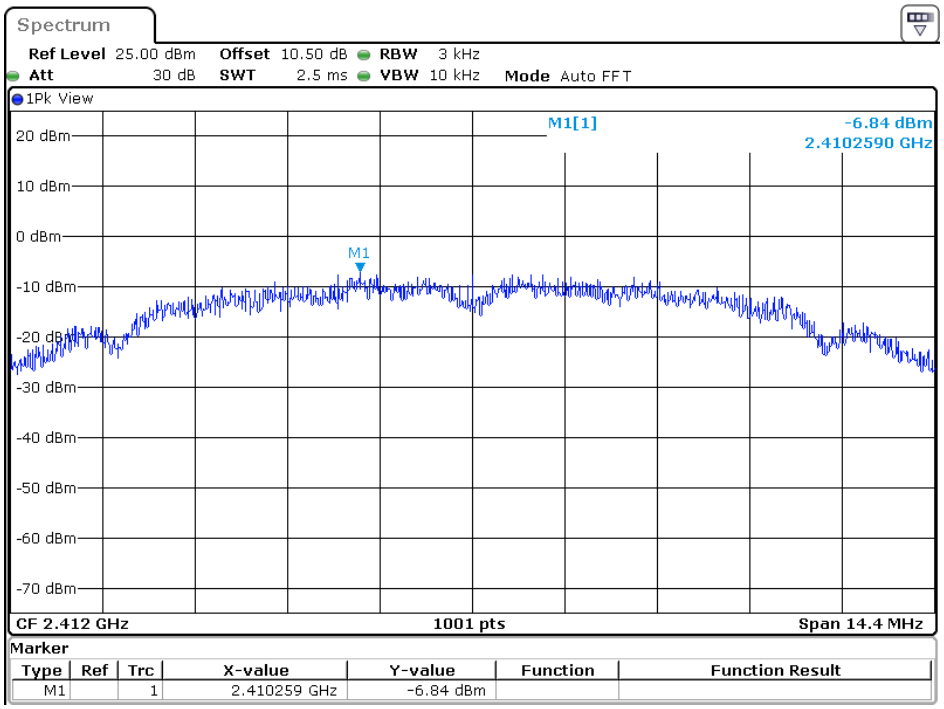
The testing was performed by Roger Ling on 2022-07-04.

EUT operation mode: Transmitting

Test Result: Compliant.

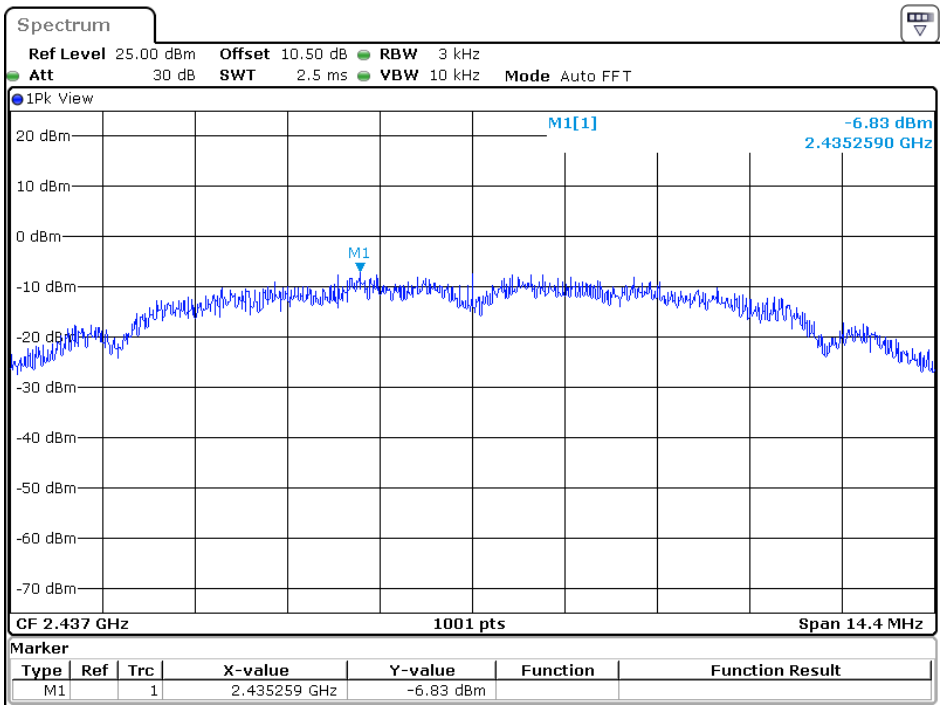
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-6.84	≤8
Middle	2437	-6.83	≤8
High	2462	-7.15	≤8
802.11g mode			
Low	2412	-10.35	≤8
Middle	2437	-9.81	≤8
High	2462	-9.90	≤8
802.11n-HT20 mode			
Low	2412	-9.97	≤8
Middle	2437	-9.68	≤8
High	2462	-9.67	≤8
802.11n-HT40 mode			
Low	2422	-10.44	≤8
Middle	2437	-10.80	≤8
High	2452	-10.94	≤8

Power Spectral Density, 802.11b Low Channel



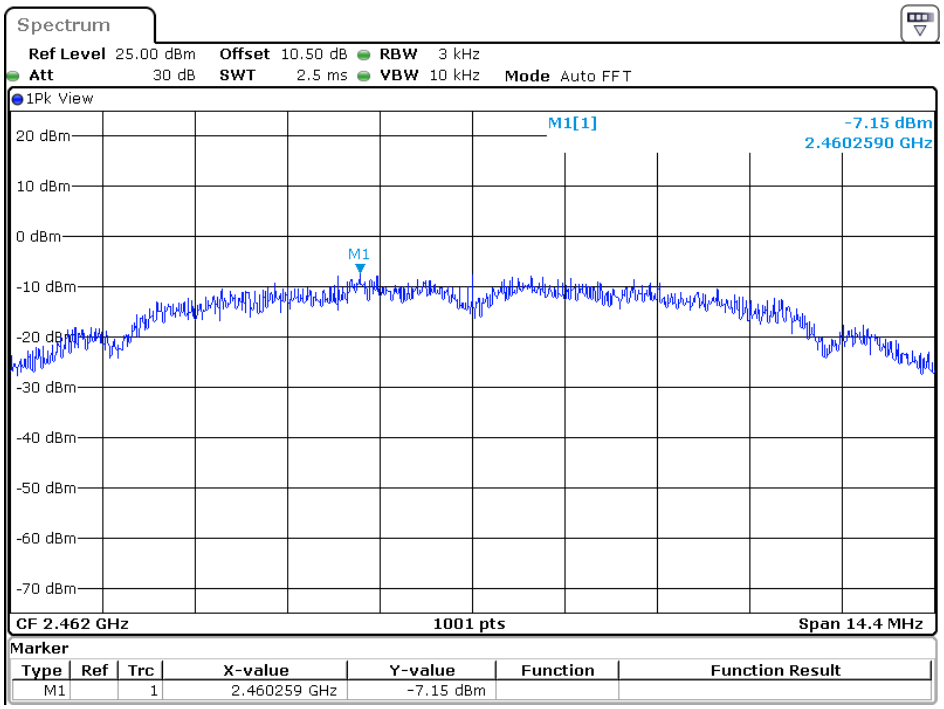
Date: 4.JUL.2022 19:04:21

Power Spectral Density, 802.11b Middle Channel



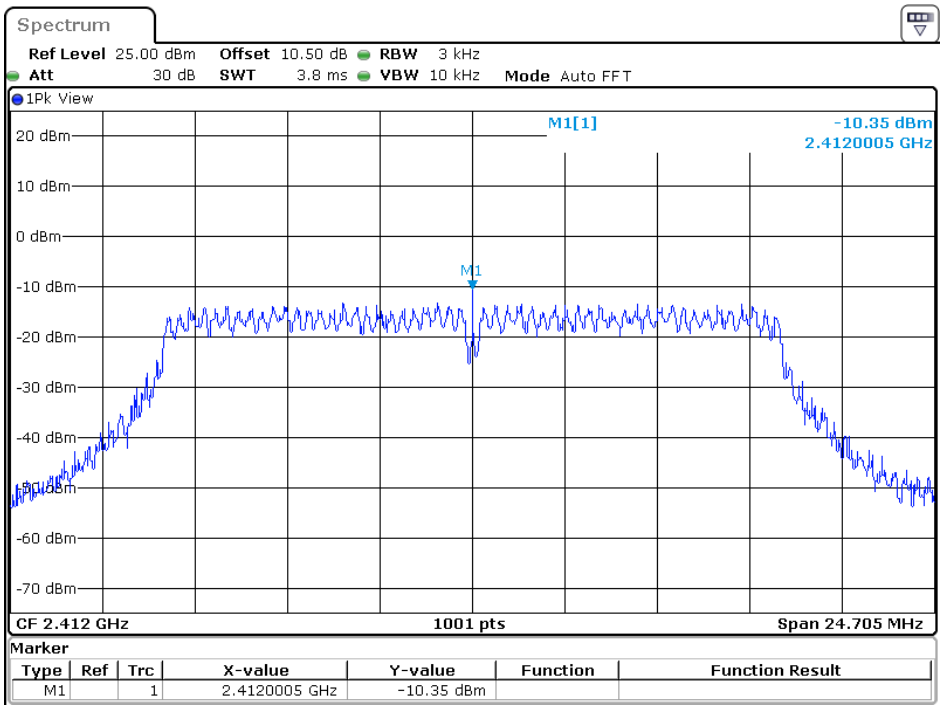
Date: 4.JUL.2022 19:11:36

Power Spectral Density, 802.11b High Channel



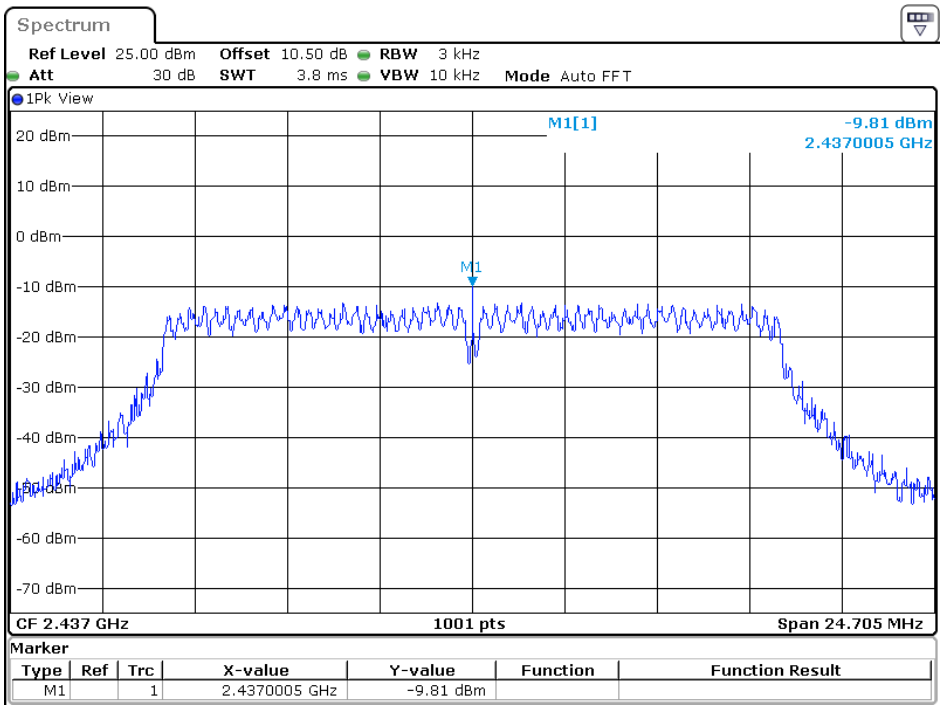
Date: 4.JUL.2022 19:27:44

Power Spectral Density, 802.11g Low Channel



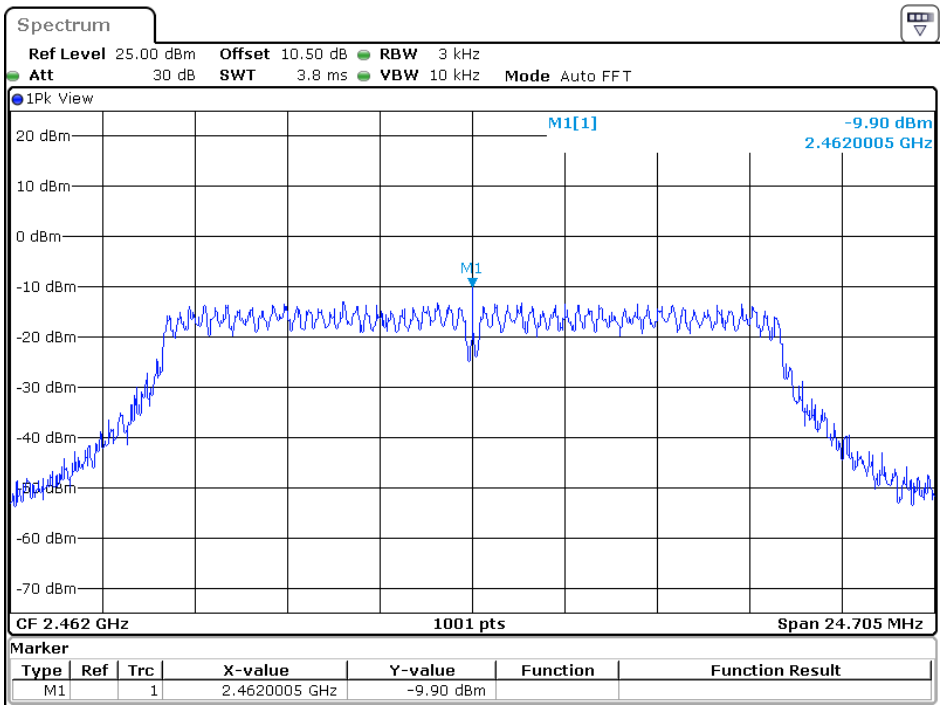
Date: 4.JUL.2022 19:32:27

Power Spectral Density, 802.11g Middle Channel



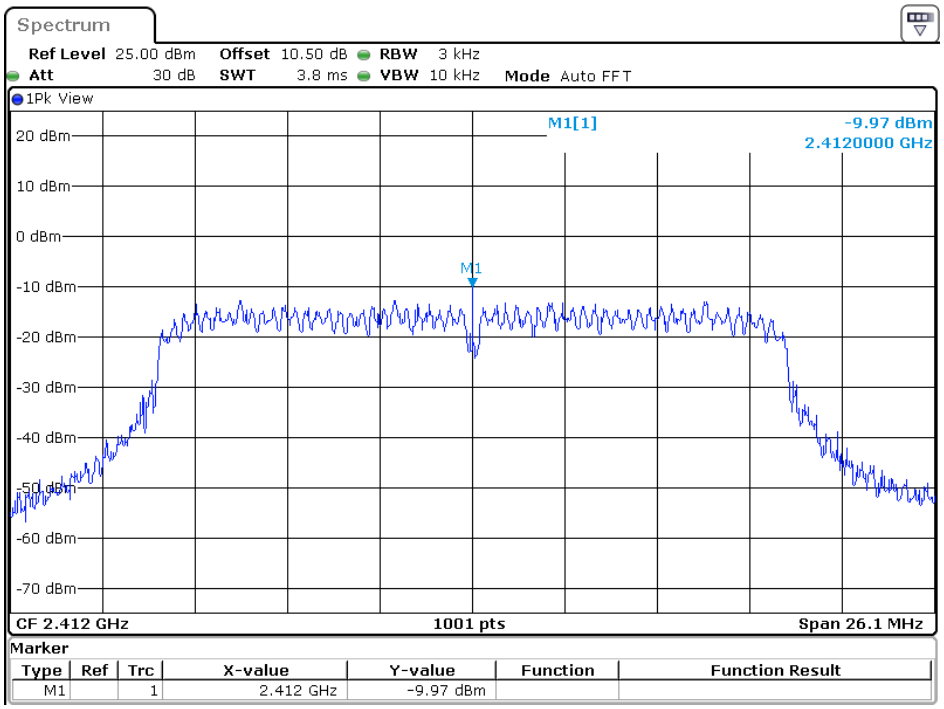
Date: 4.JUL.2022 19:37:10

Power Spectral Density, 802.11g High Channel



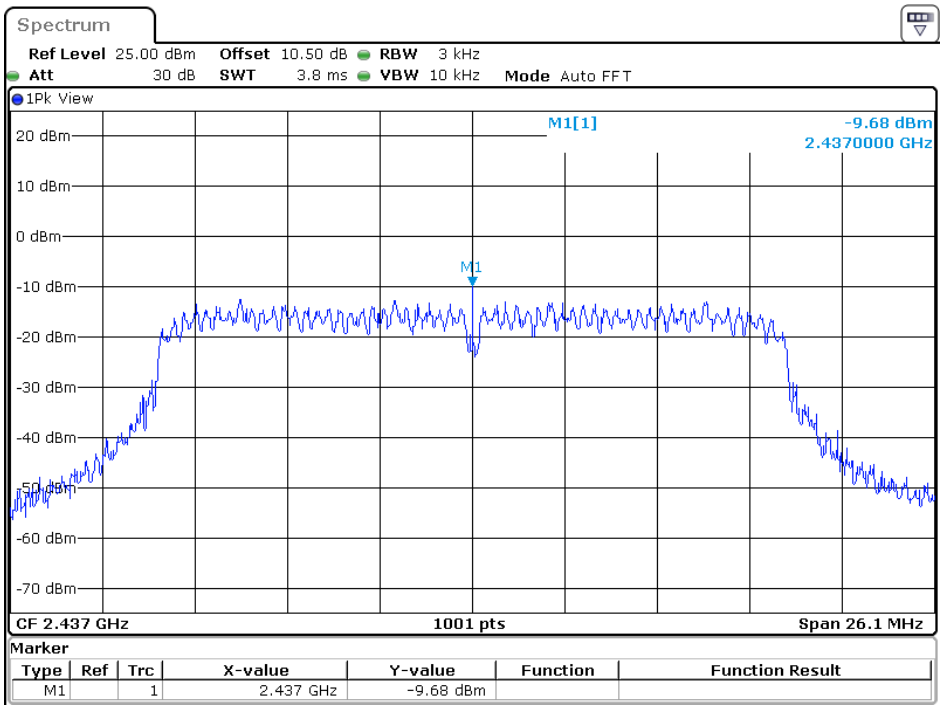
Date: 4.JUL.2022 20:00:28

Power Spectral Density, 802.11n-HT20 Low Channel



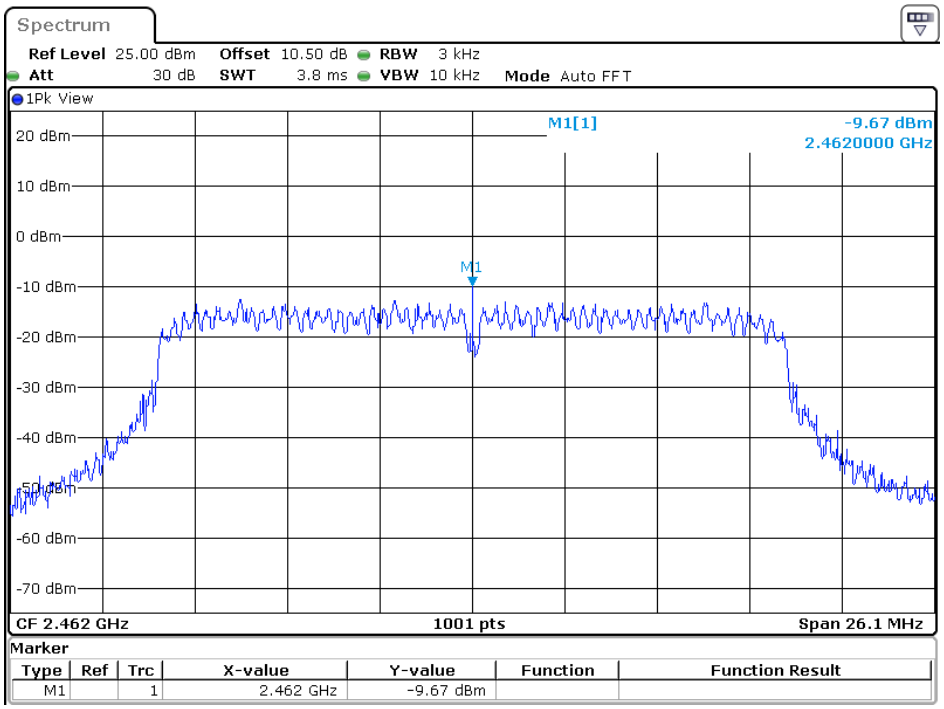
Date: 4.JUL.2022 20:05:40

Power Spectral Density, 802.11n-HT20 Middle Channel



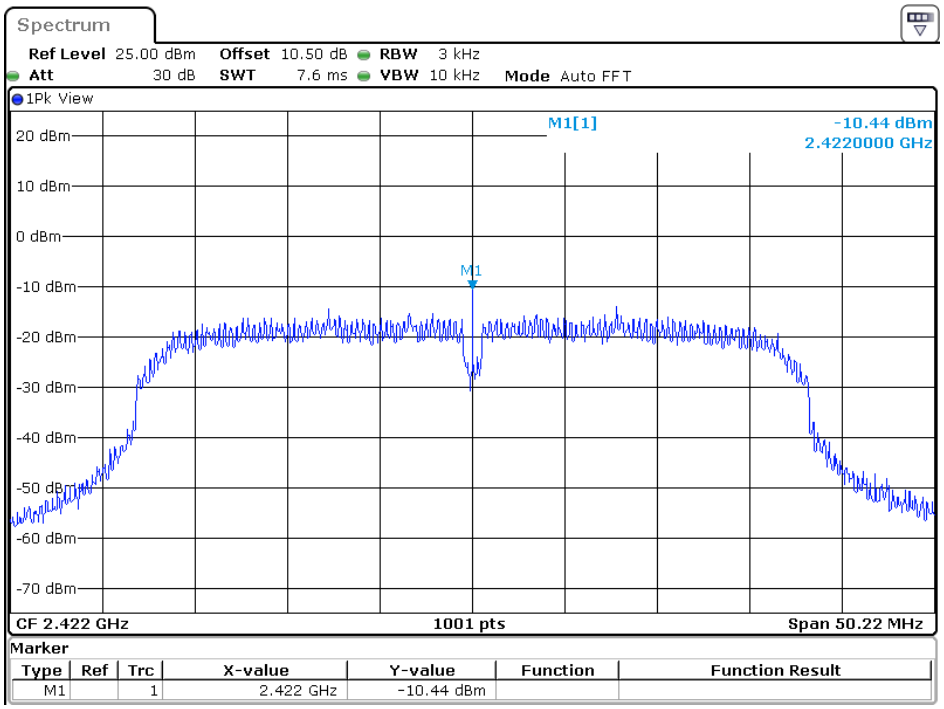
Date: 4.JUL.2022 20:10:23

Power Spectral Density, 802.11n-HT20 High Channel



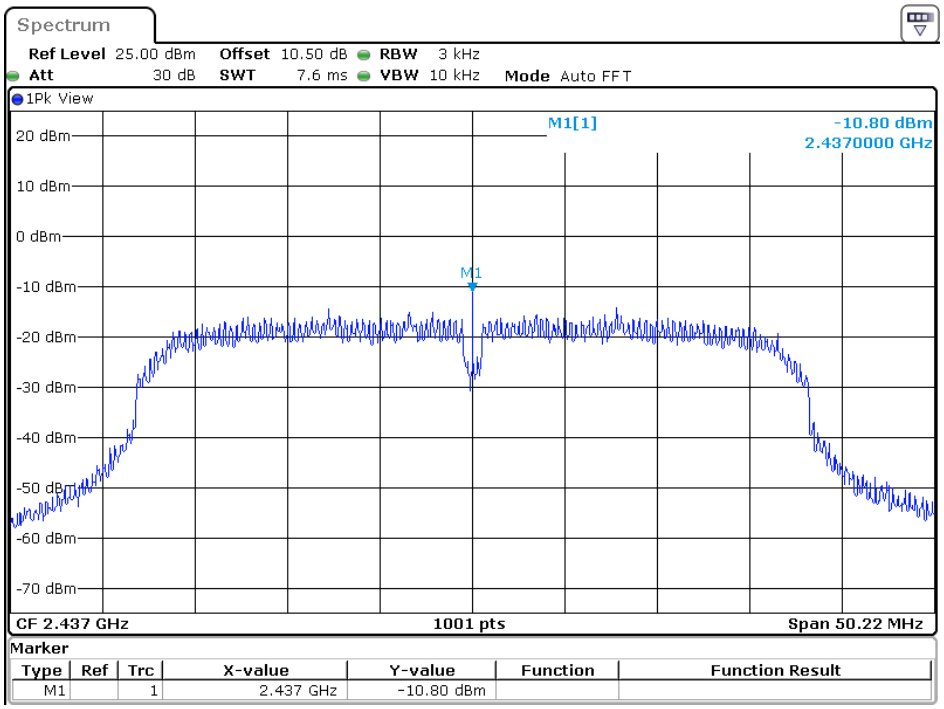
Date: 4.JUL.2022 20:15:26

Power Spectral Density, 802.11n-HT40 Low Channel



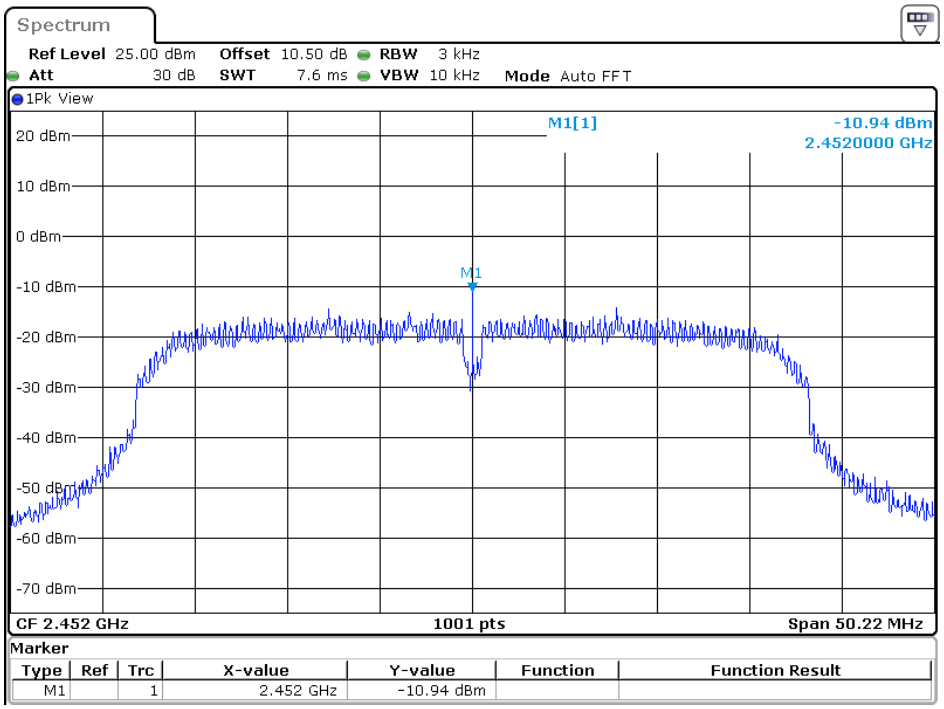
Date: 4.JUL.2022 20:22:21

Power Spectral Density, 802.11n-HT40 Middle Channel



Date: 4.JUL.2022 20:30:30

Power Spectral Density, 802.11n-HT40 High Channel



Date: 4.JUL.2022 20:34:31

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