

TEST REPORT

Report No.: SHE23060106-02BE

Date: 2023-12-08

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Applicant : SIMCom Wireless Solutions Limited.
Address of Applicant : SIMCom Headquarters Building, Building 3, No.289
Linhong Road, Changning District, Shanghai, China

Product Name : LTE Wireless Data Module
Brand Name : SIMCom
Model Name : SIM8918NA
Sample Acquisition Method : Sent by Client
Sample No. : E23060106-02#03

FCC ID : 2AJYU-8XRA002
ISED Number : 23761-8XRA002

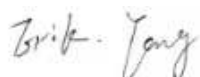
Standards : FCC CFR47 Part 15, Subpart C
RSS-Gen (Issue 5, Amd.2-Feb 2021)
RSS-247 (Issue 3, August 2023)

Date of Receipt : 2023-09-06
Date of Test : 2023-09-06~ 2023-12-06
Date of Issue : 2023-12-08

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



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(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

ISED CAB identifier #	CN0081
Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	SIMCom Wireless Solutions Limited
Address	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China
Contact Person	Yongsheng Li
Telephone	+86 21 3252 3134
Email	yongsheng.li@simcom.com
Manufacturer Company Name	SIMCom Wireless Solutions Limited
Address	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China
Factory Company Name	SIMCom Wireless Solutions Limited
Address	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China

1.3 Details of EUT

Product Name	LTE Wireless Data Module
Brand Name	SIMCom
Test Model Name	SIM8918NA
FCC ID	2AJYU-8XRA002
ISED Number	23761-8XRA002
Mode of Operation	WLAN 802.11b/g/n(HT20/40)
Conducted (average) output power	IEEE 802.11b: 15.05dBm IEEE 802.11g: 15.18dBm IEEE 802.11n(20): 15.35dBm IEEE 802.11n(40):14.58dBm
Frequency Range	2400MHz ~ 2483.5MHz
Channel Separation	5 MHz
Number of channels	11
Modulation Type	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n(20M/40M): OFDM(64QAM, 16QAM, QPSK, BPSK)

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Antenna Type	External Antenna
Antenna Gain	4.01dBi
Extreme Temperature Range	-35℃~ +75℃
Test Voltage	DC 3.9V
Hardware Version	8XR000-SIM8918_V1.03
Software Version	SIM8918B01V01
RF power setting in TEST SW	802.11b: QRCT_Power level setting_13dBm 802.11g: QRCT_Power level setting_13dBm 802.11n(HT20): QRCT_Power level setting_13dBm 802.11n(HT40): QRCT_Power level setting_12dBm

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2.412GHz	5	2.432GHz	9	2.452GHz
2	2.417GHz	6	2.437GHz	10	2.457GHz
3	2.422GHz	7	2.442GHz	11	2.462GHz
4	2.427GHz	8	2.447GHz		

Note:

For 20MHz bandwidth system use Channel 1 to Channel 11

For 40MHz bandwidth system use Channel 3 to Channel 9

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
RSS-Gen (Issue 5, Amd.2-Feb 2021)	General Requirements for Compliance of Radio Apparatus
RSS-247 (Issue 3, August 2023)	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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1.5 Test Summary

Test Item	FCC Rules	ISED RULES	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	RSS-247 5.4(f) RSS-GEN 6.8	PASS
Maximum conducted (average) output power and E.I.R.P	FCC Part 15.247(b)(3)	RSS-247 5.4(d)	PASS
6dB Bandwidth and 99% Bandwidth	FCC Part 15.247(a)(2)	RSS-247 5.2(a) RSS-Gen 6.7	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	RSS-247 5.2(b)	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	RSS-247 5.5	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.9	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.10	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	RSS-Gen 8.8	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2023-07-27	2024-07-26
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2023-06-08	2024-06-07
Signal Generator	Rohde & Schwarz	SMR27	100184	2023-07-27	2024-07-26
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2023-06-08	2024-06-07
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2023-06-08	2024-06-07
V-network	SCHWARZBECK	NSLK 8127	8127-902	2023-06-07	2024-06-06
Attenuator	SCHWARZBECK	VTSD 9561-FN	/	2023-06-06	2024-06-05
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2023-03-22	2025-03-21
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2023-06-13	2025-06-12
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2023-06-09	2024-06-08
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2023-06-18	2025-06-17
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2023-06-08	2024-06-07
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2023-06-09	2024-06-08
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2023-06-09	2025-06-08
Test Software	BL	BL410_E	Version:1.0.0.117	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	N/A	N/A

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2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	9KHz – 30MHz	± 3.42 dB
	30 MHz – 1GHz	± 5.00 dB
	> 1GHz	± 4.88 dB
Conducted Emission on AC Mains	150kHz-30MHz	± 2.68 dB
Occupied Channel Bandwidth		± 5 %
Maximum Conducted Output Power and E.I.R.P		± 0.64 dB
Maximum Conducted Output Power Spectral Density		± 1.18 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software (QRCT Version 4.0.00166.0) was control EUT work in continuous transmitting mode. Select test channel as below:

For 802.11b/g/n (HT20)

Channel	Frequency
The lowest channel (CH1)	2412MHz
The middle channel (CH6)	2437MHz
The highest channel (CH11)	2462MHz

For 802.11n(HT40)

Channel	Frequency
The lowest channel (CH3)	2422MHz
The middle channel (CH6)	2437MHz
The highest channel (CH9)	2452MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate
802.11b	5.5Mbps
802.11g	48Mbps
802.11n(20M)	MCS6
802.11n(40M)	MCS4

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

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3.2 Special Accessories and Auxiliary Equipment

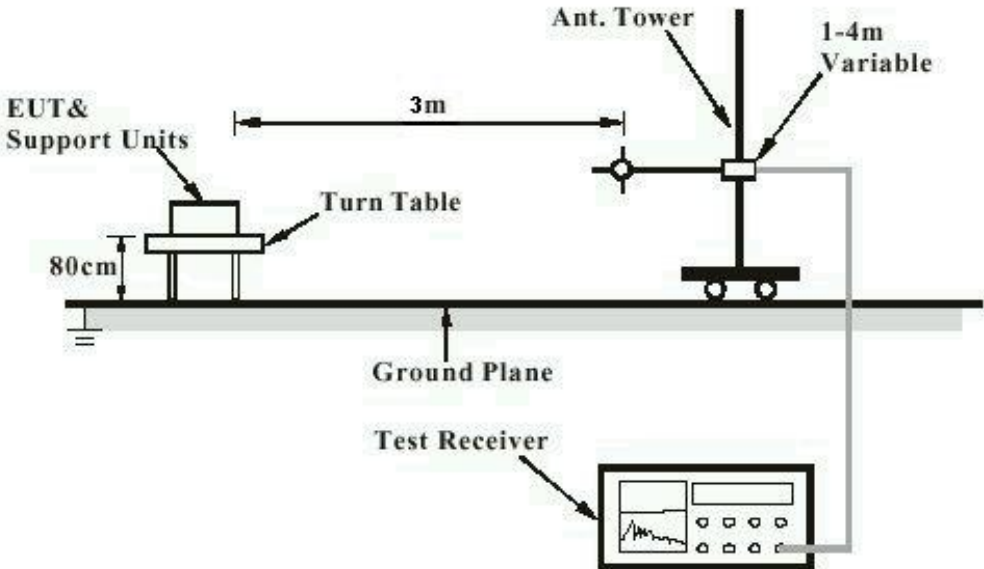
Description	Manufacturer	Model Name	Serial No.
Laptop	Lenovo	TP00083A	N/A
SWITCHING POWER SUPPLY	N/A	P-050B-050200EU	N/A
EVB Debug Board 1	N/A	Smart Module-EVB_V1.03	N/A
EVB Debug Board 2	N/A	8918-TE_V1.02	N/A
USB Cable	N/A	N/A	1.00m Unshielded

3.3 Support Software

Description	Manufacturer	Software Name
Software	Qualcomm	QRCT Version 4.0.00166.0

3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

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Diagram of Measurement Equipment Configuration for Conduction Measurement

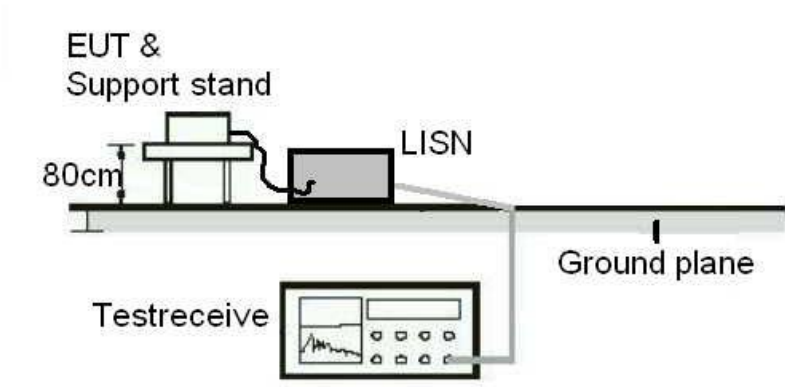
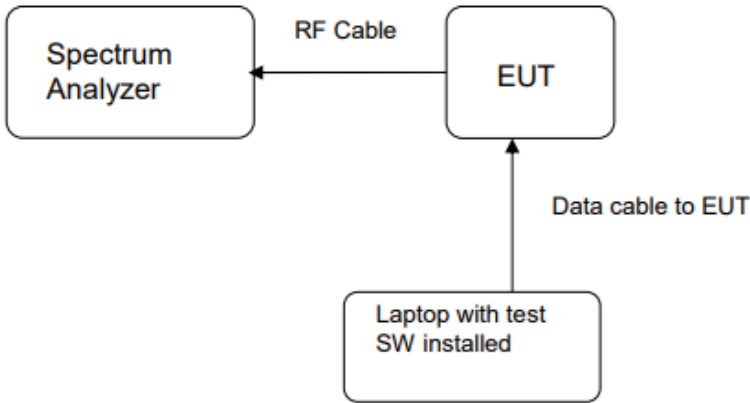


Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.247(b)(4), Part 15.203
RSS-247 5.4(f), RSS-GEN 6.8

Requirement : The use of approved antennas only with directional
gains that do not exceed 6dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.01dBi. The antenna is an external antenna with no possibility of replacement with a non-approved antenna by the end-user.

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.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Maximum conducted (average) output power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3), RSS-247 5.4(d)
Requirement : ANSI C63.10-2013, Clause 11.9.2
KDB 558074 D01 v05r02, Clause 8.3.2
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 23.8°C
Relative humidity : 46%

Table 1: Maximum conducted (average) output power

Test Mode	Duty Cycle (%)	Test Channel (MHz)	Maximum conducted (average) output power		Limit (W)
			(dBm)	(mW)	
802.11b	95.26	2412	14.33	27.10	≤1
		2437	15.05	31.99	
		2462	14.25	26.61	
802.11g	88.77	2412	14.36	27.29	
		2437	15.18	32.96	
		2462	14.39	27.48	
802.11n(HT20)	87.72	2412	14.58	28.71	
		2437	15.35	34.28	
		2462	14.55	28.51	
802.11n(HT40)	79.17	2422	13.55	22.65	
		2437	14.58	28.71	
		2452	13.71	23.50	

Notes:

1. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

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Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
802.11b	2412	18.34	68.23	< 4
	2437	19.06	80.54	
	2462	18.26	66.99	
802.11g	2412	18.37	68.71	
	2437	19.19	82.99	
	2462	18.40	69.18	
802.11n(HT20)	2412	18.59	72.28	
	2437	19.36	86.30	
	2462	18.56	71.78	
802.11n(HT40)	2422	17.56	57.02	
	2437	18.59	72.28	
	2452	17.72	59.16	

Note: EIRP = Conducted output power + Antenna Gain(4.01dBi).

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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard

: FCC Part 15.247(a)(2), RSS-247 5.2(a)
RSS-Gen 6.7

Requirement

: ANSI C63.10-2013, Clause 11.8.1
KDB 558074 D01 v05r02, Clause 8.2

Kind of test site

: Shielded room

Test setup

Test Channel

: Low/Middle/High

Operation Mode

: A.1.a

Ambient temperature

: 22.7°C

Relative humidity

: 47%

Table 3: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth Applicable Limit (MHz)
802.11b	2412	8.80	13.811	≥0.5
	2437	8.85	13.683	
	2462	8.30	13.361	
802.11g	2412	16.46	16.828	
	2437	16.46	16.756	
	2462	16.38	16.726	
802.11n(HT20)	2412	17.63	18.028	
	2437	17.67	18.068	
	2462	17.70	17.861	
802.11n(HT40)	2422	36.05	36.274	
	2437	36.11	36.394	
	2452	36.41	36.431	

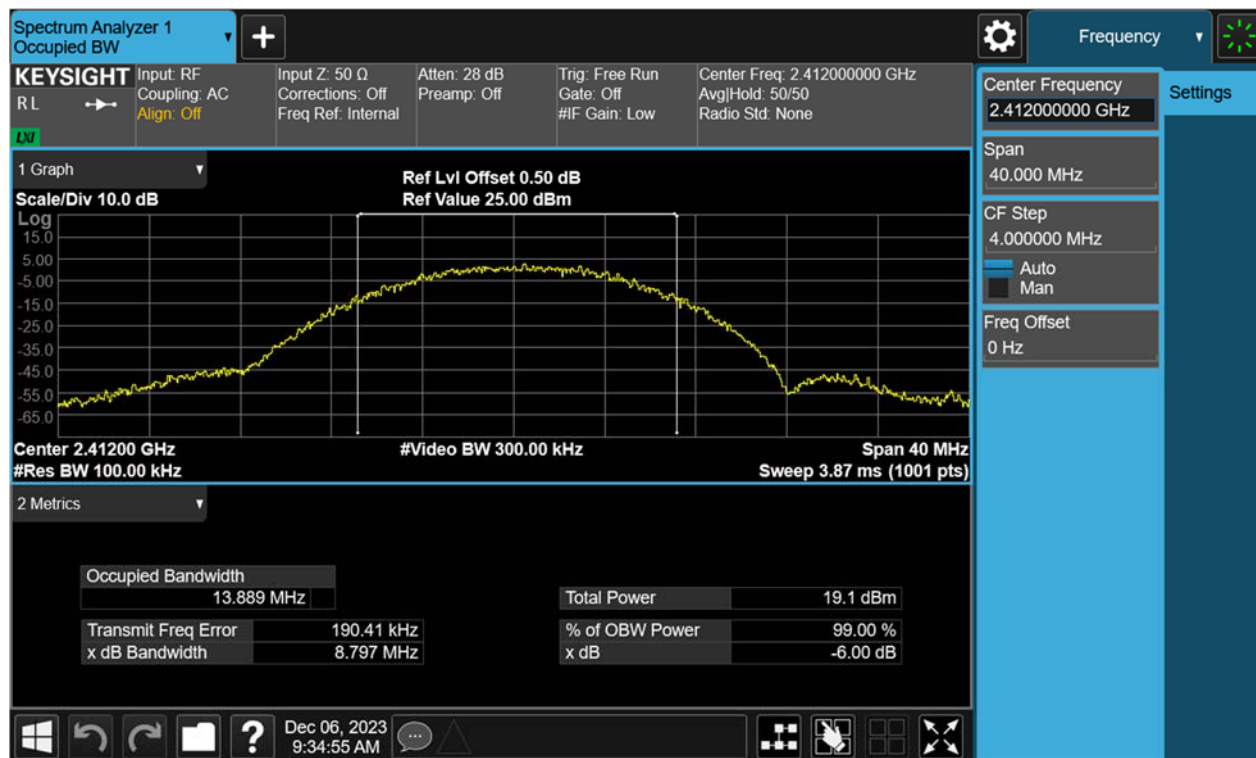
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Figure 1: 6dB Bandwidth, 802.11b, 2412MHz



99% Bandwidth, 802.11b, 2412MHz



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Figure 2: 6dB Bandwidth, 802.11b, 2437MHz



99% Bandwidth, 802.11b, 2437MHz



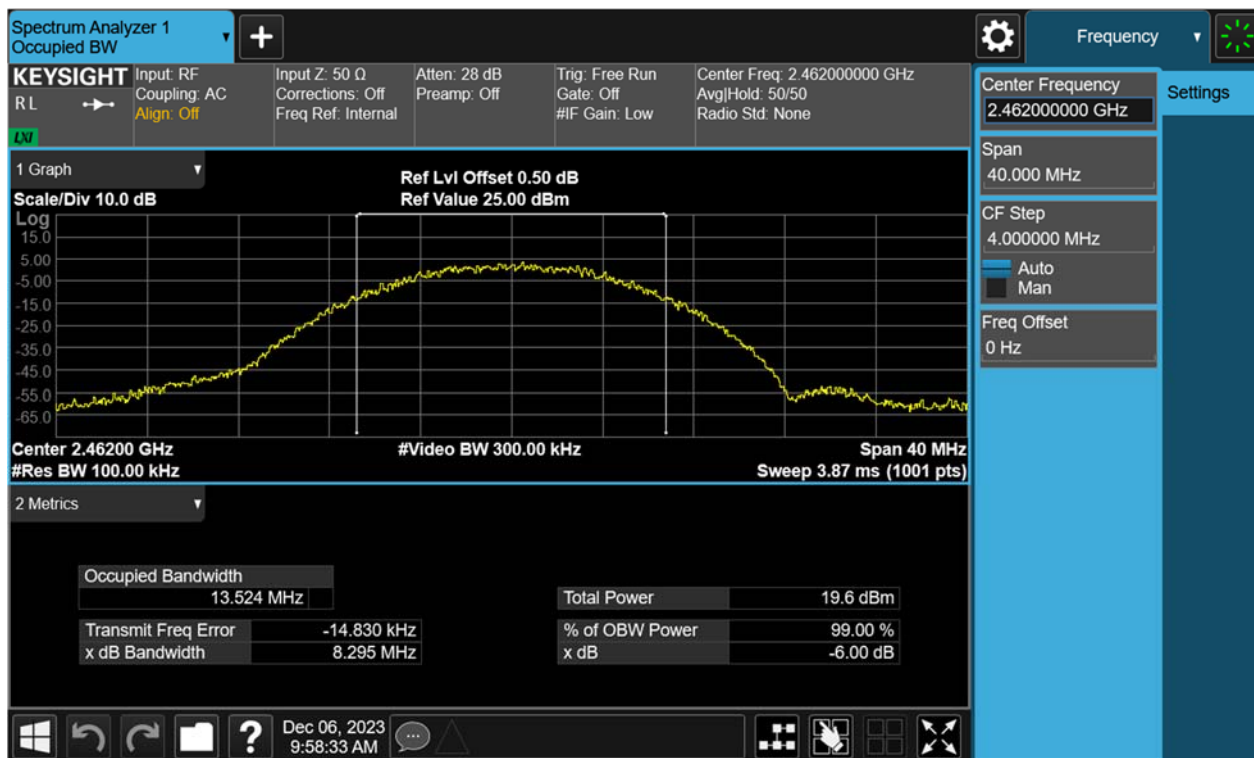
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Figure 3: 6dB Bandwidth, 802.11b, 2462MHz



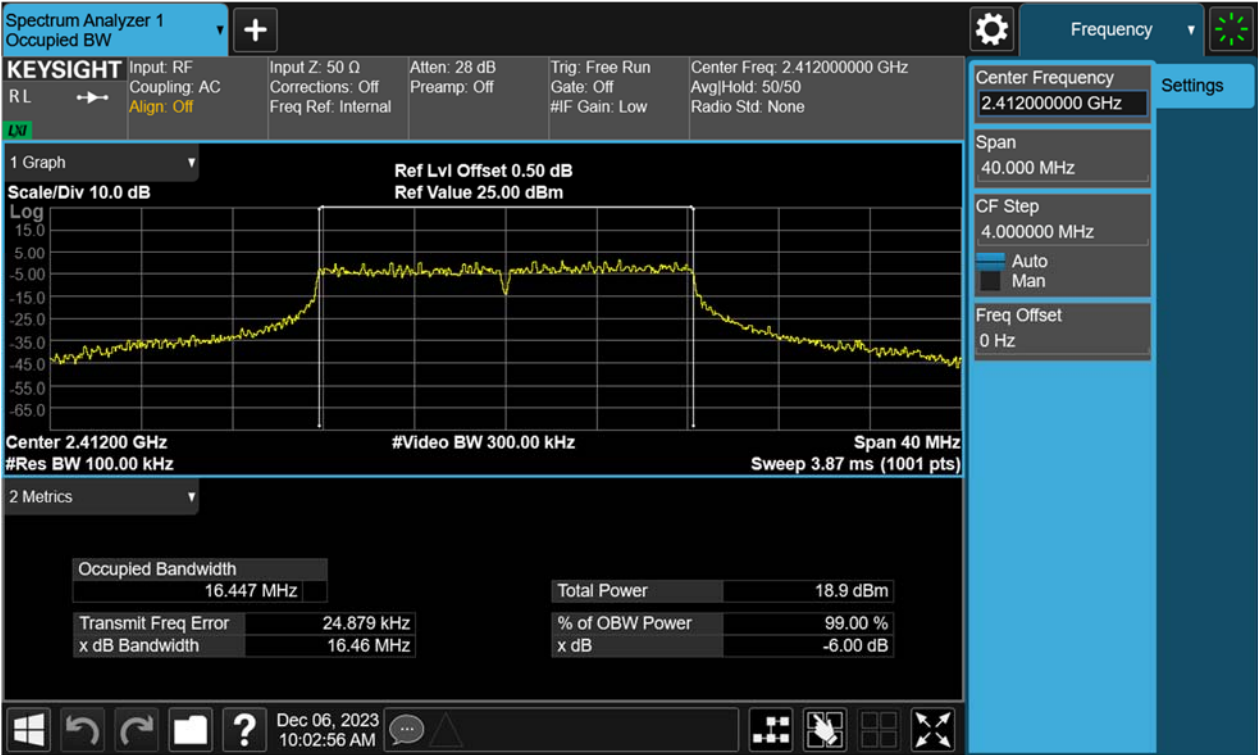
99% Bandwidth, 802.11b, 2462MHz



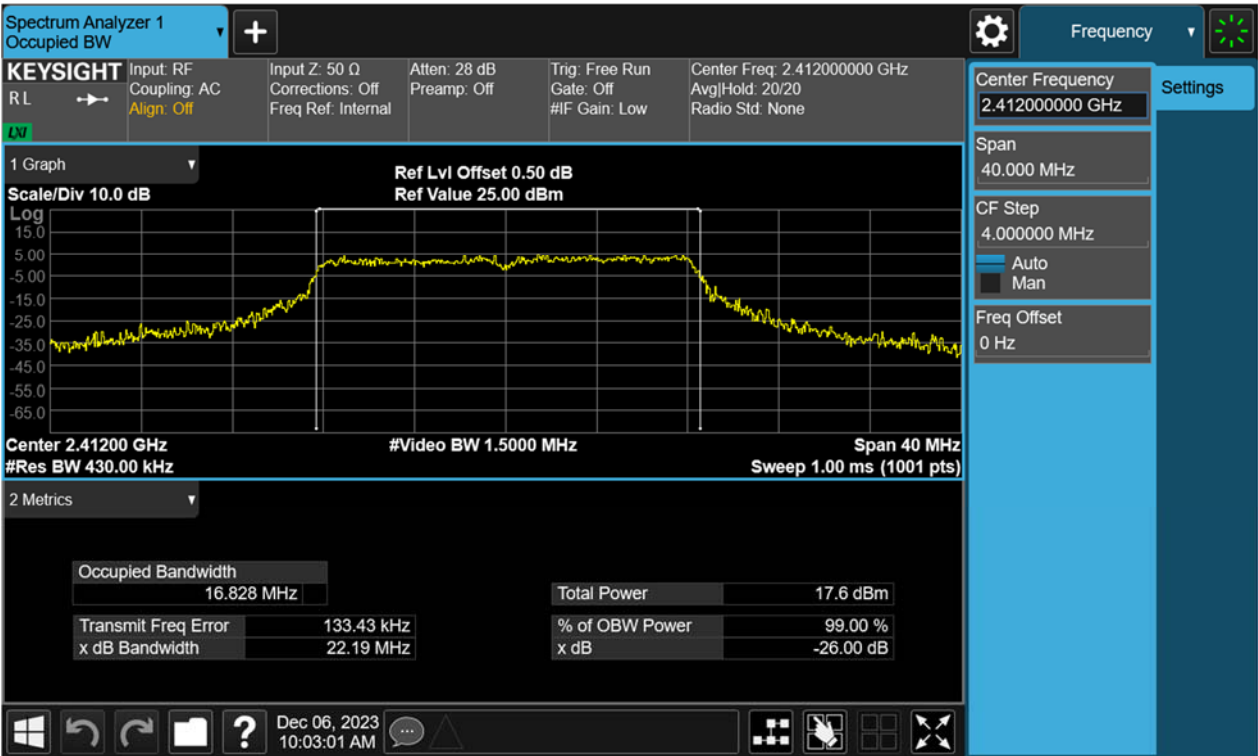
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Figure 4: 6dB Bandwidth, 802.11g, 2412MHz



99% Bandwidth, 802.11g, 2412MHz



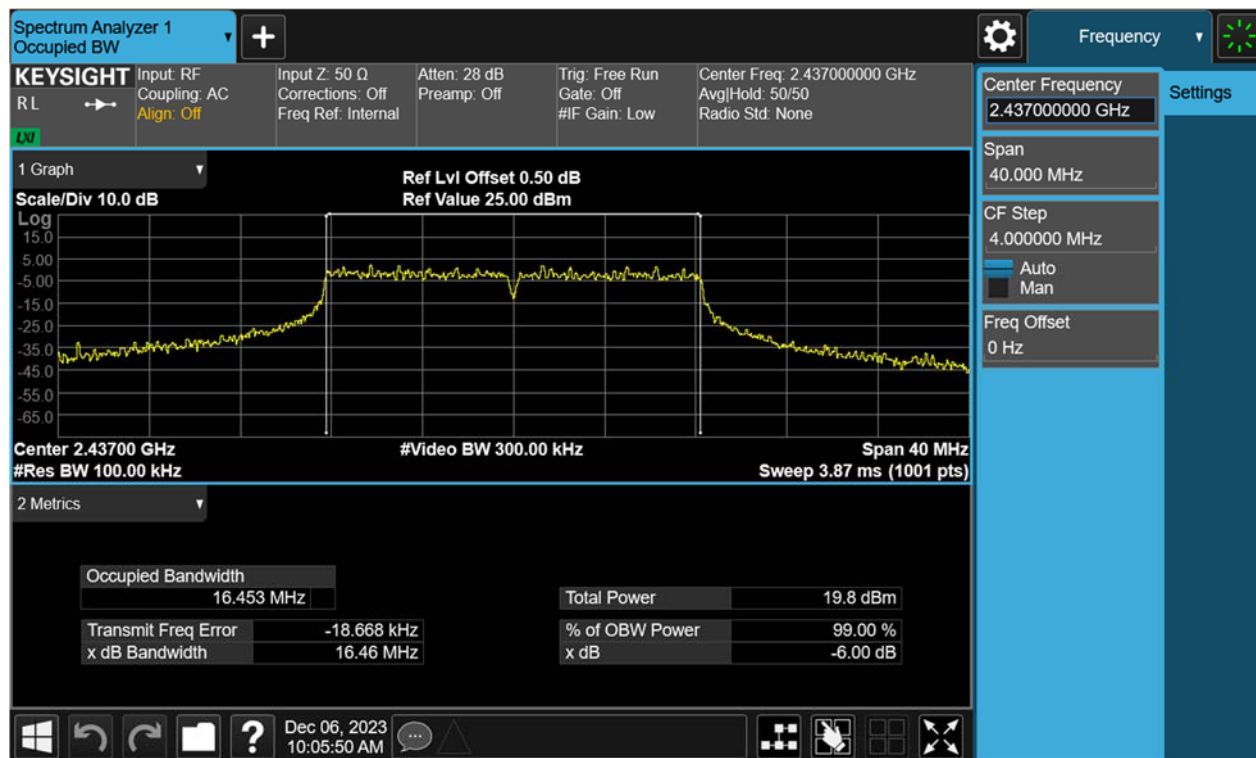
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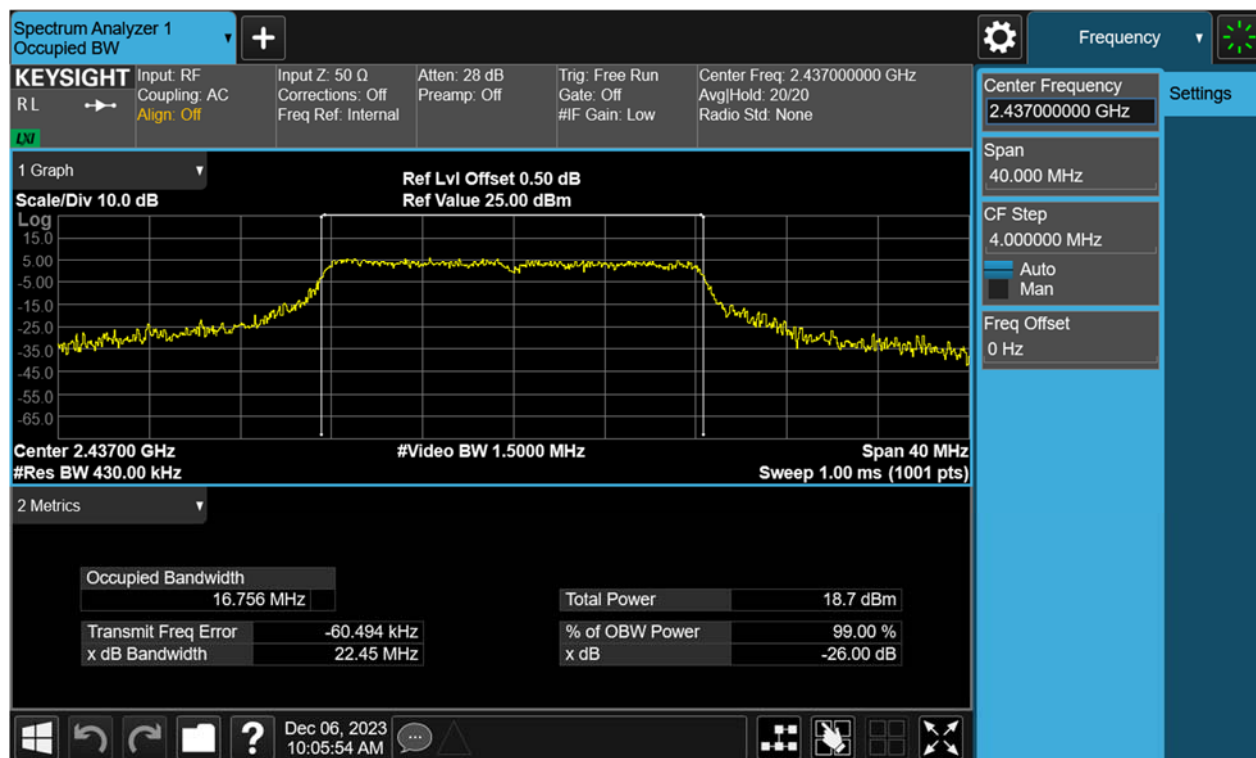
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Figure 5: 6dB Bandwidth, 802.11g, 2437MHz



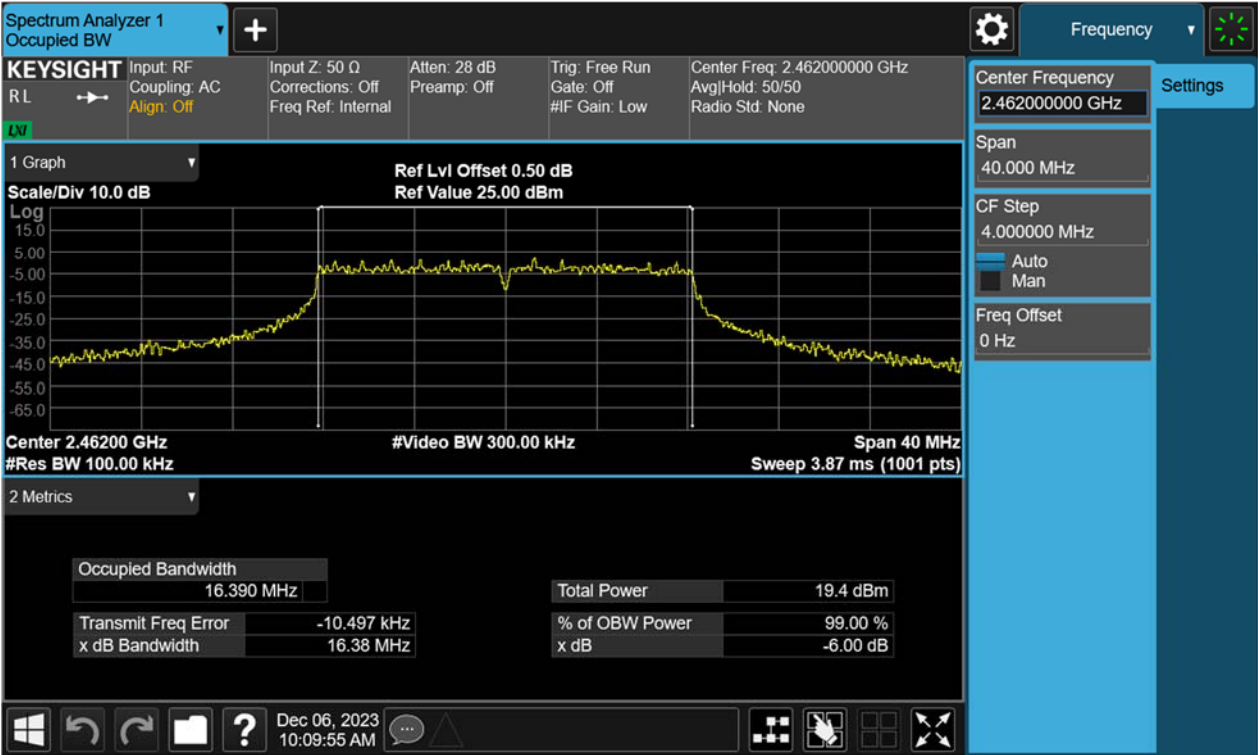
99% Bandwidth, 802.11g, 2437MHz



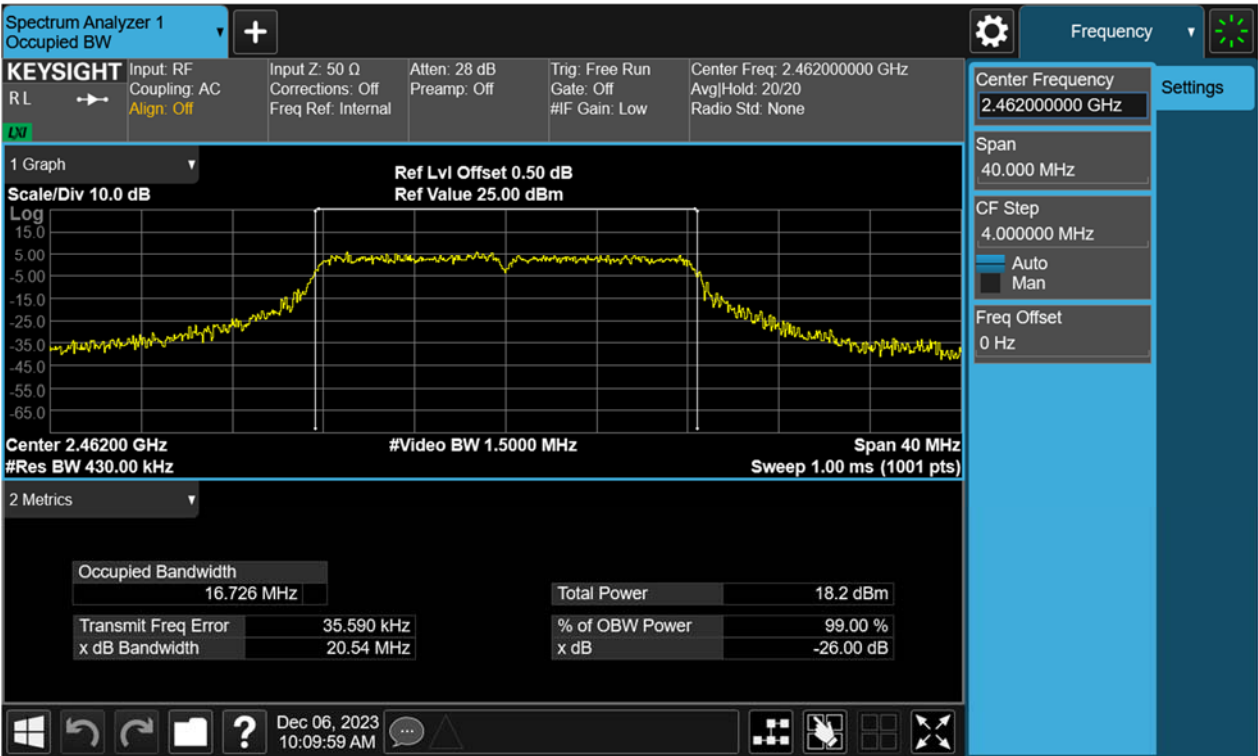
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Figure 6: 6dB Bandwidth, 802.11g, 2462MHz



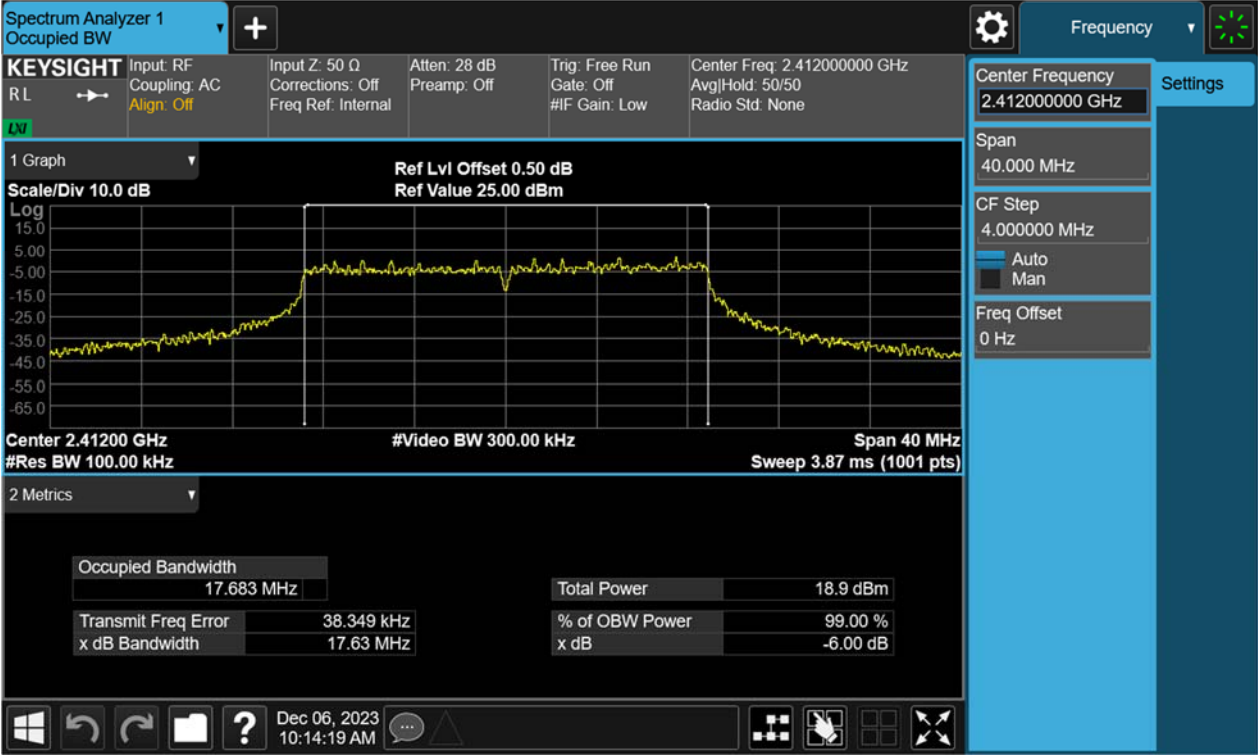
99% Bandwidth, 802.11g, 2462MHz



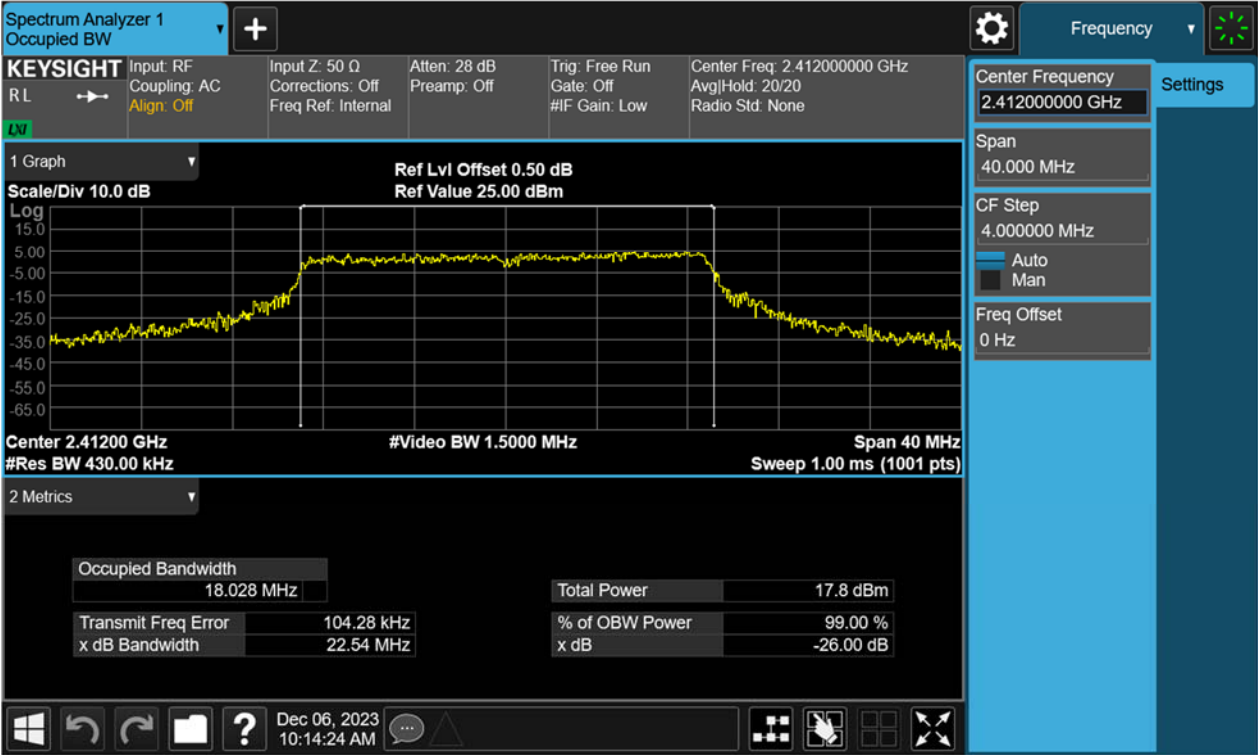
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Figure 7: 6dB Bandwidth, 802.11n(HT20), 2412MHz



99% Bandwidth, 802.11n(HT20), 2412MHz



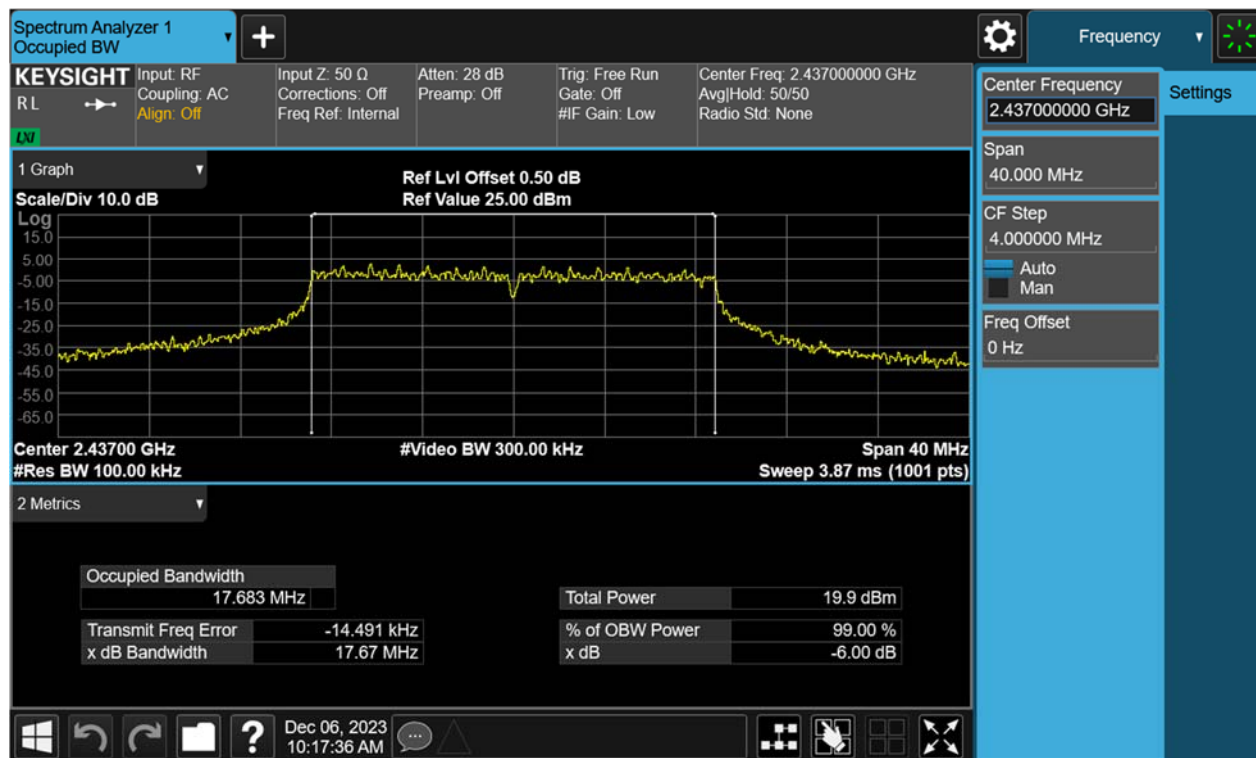
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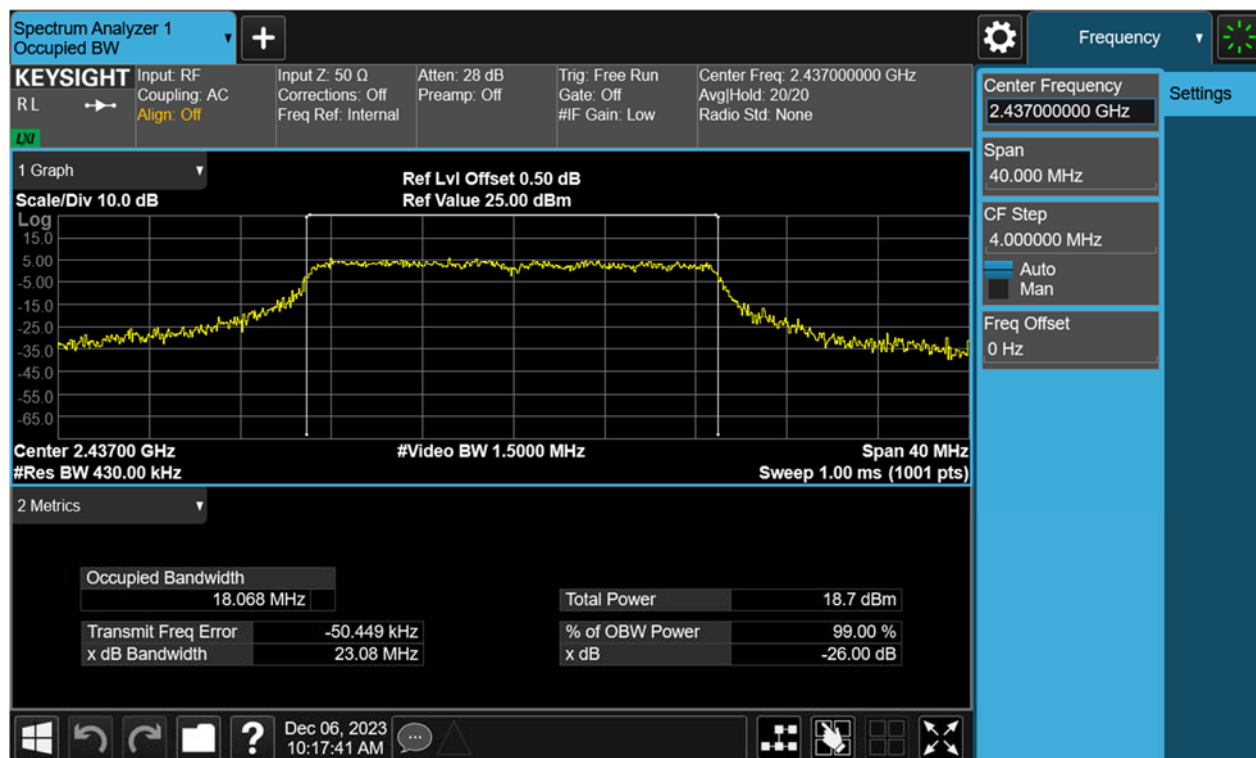
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Figure 8: 6dB Bandwidth, 802.11n(HT20), 2437MHz



99% Bandwidth, 802.11n(HT20), 2437MHz



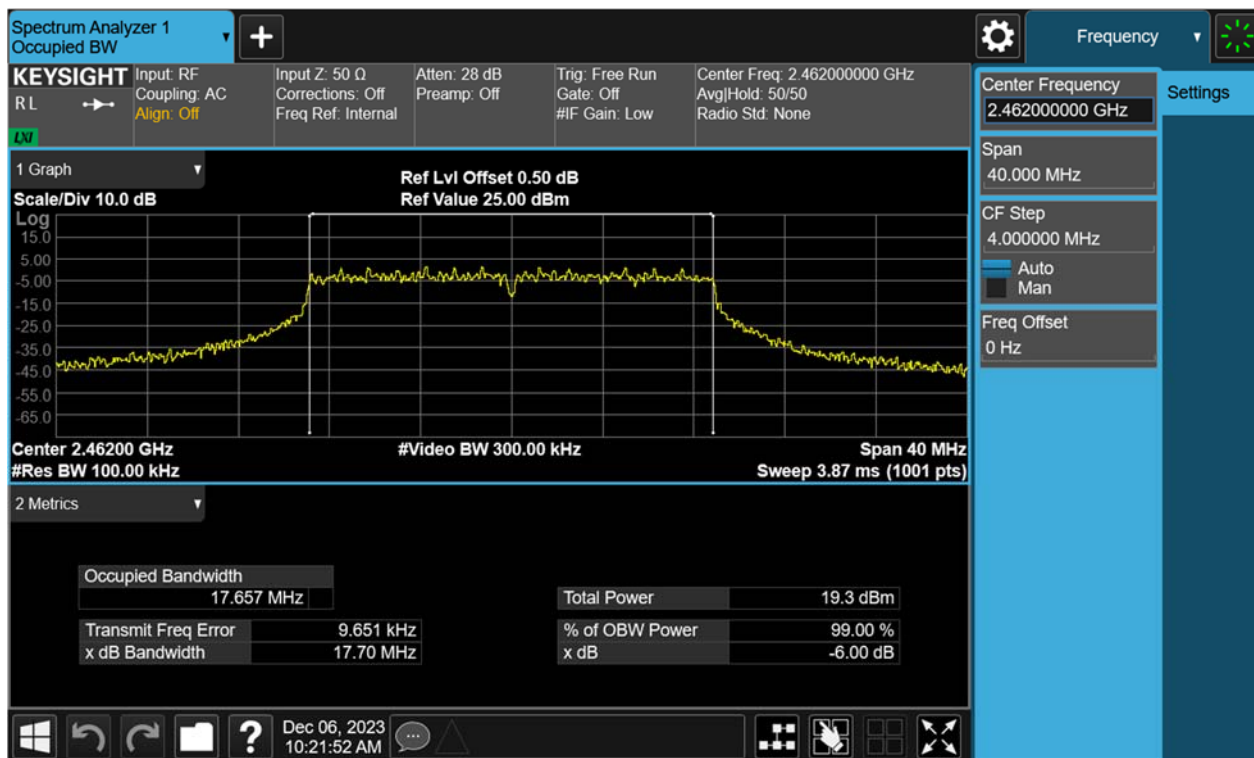
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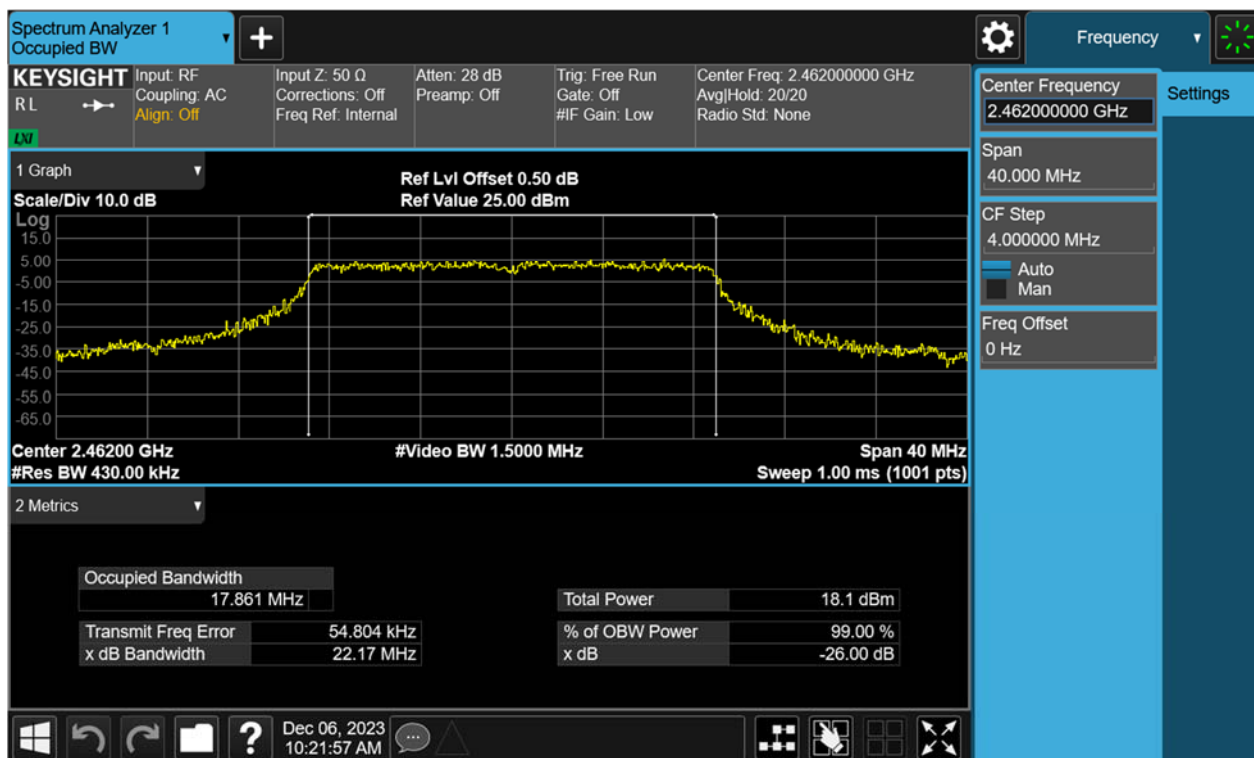
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Figure 9: 6dB Bandwidth, 802.11n(HT20), 2462MHz



99% Bandwidth, 802.11n(HT20), 2462MHz



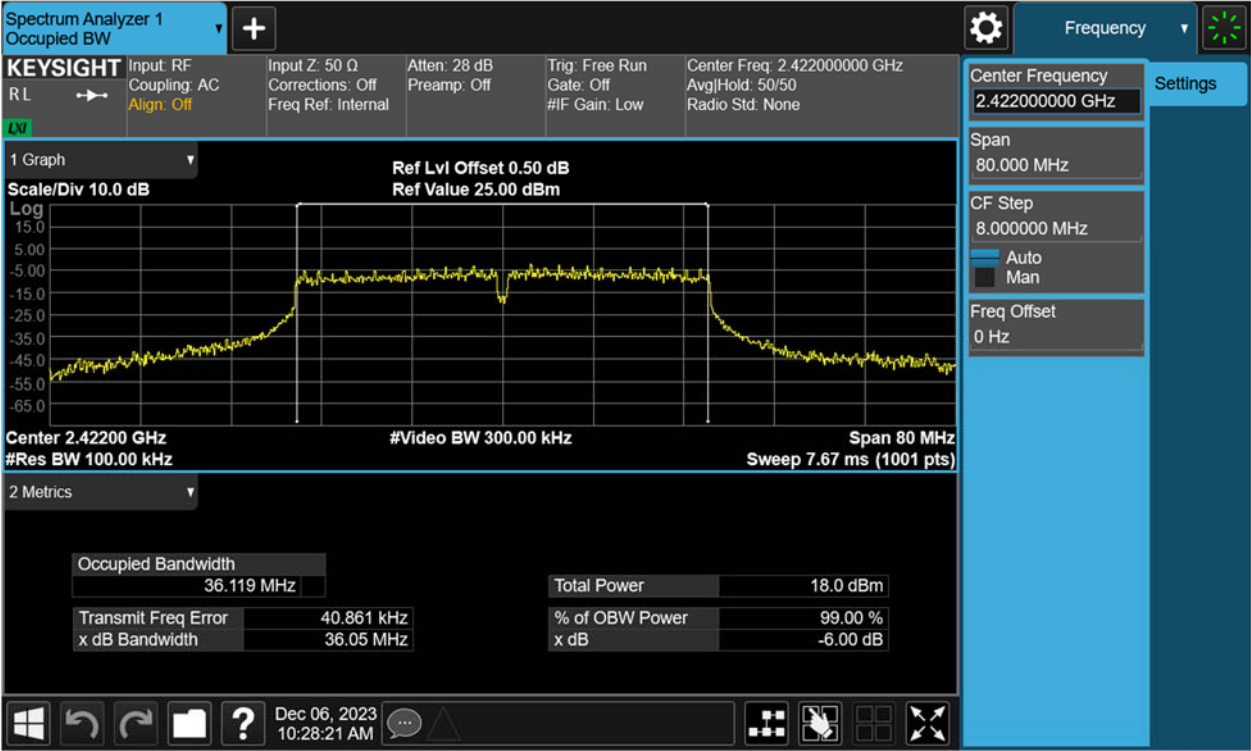
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Figure 10: 6dB Bandwidth, 802.11n(HT40), 2422MHz



99% Bandwidth, 802.11n(HT40), 2422MHz



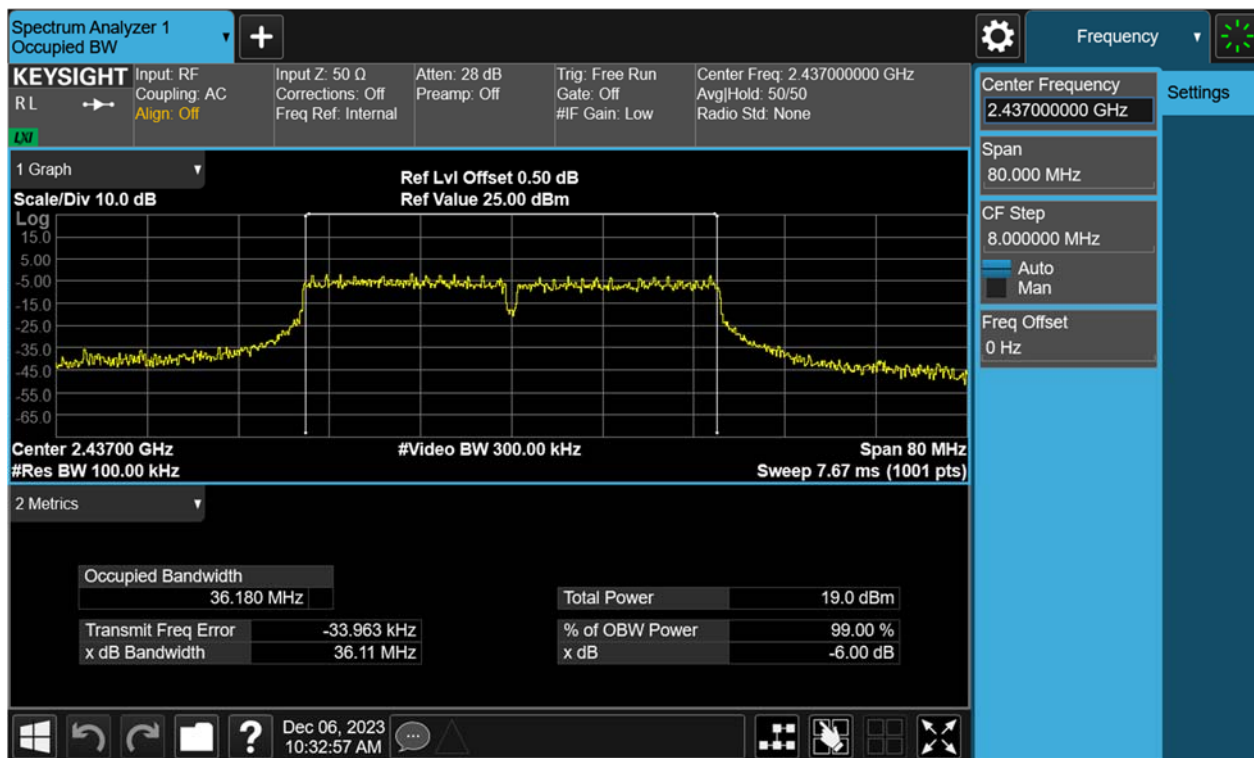
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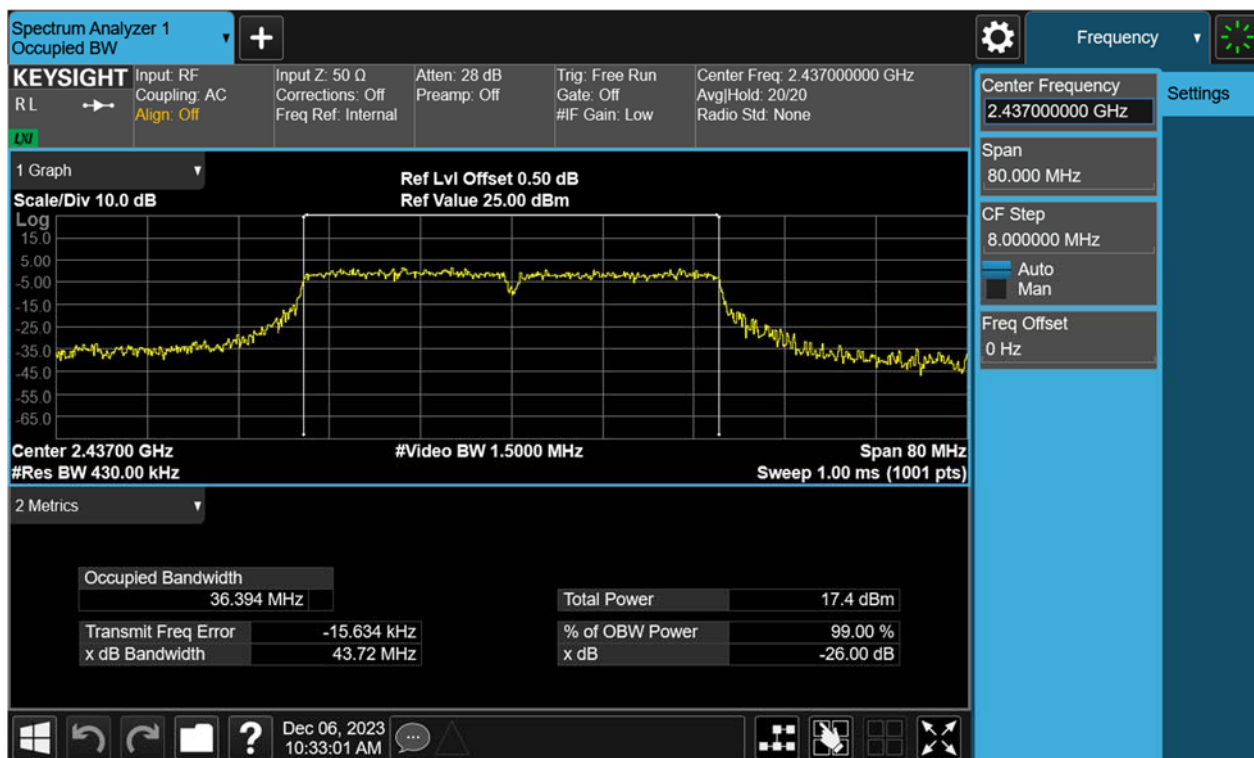
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Figure11: 6dB Bandwidth, 802.11n(HT40), 2437MHz



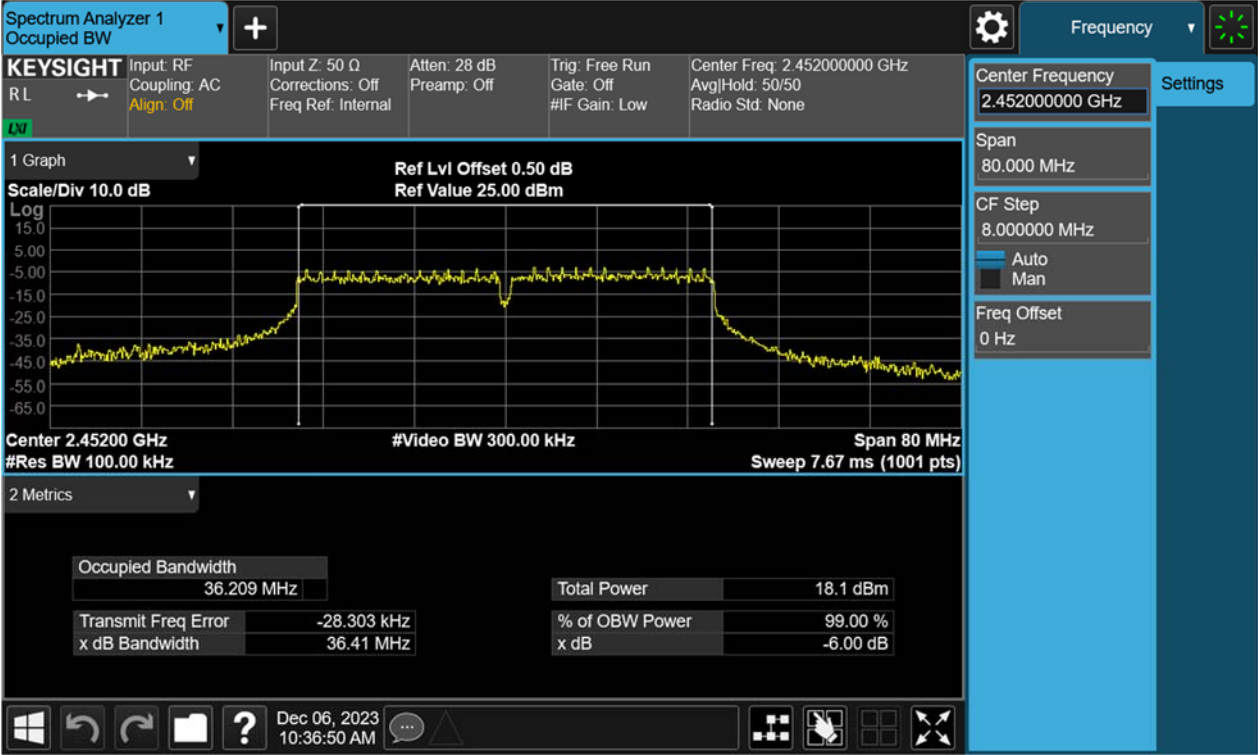
99% Bandwidth, 802.11n(HT40), 2437MHz



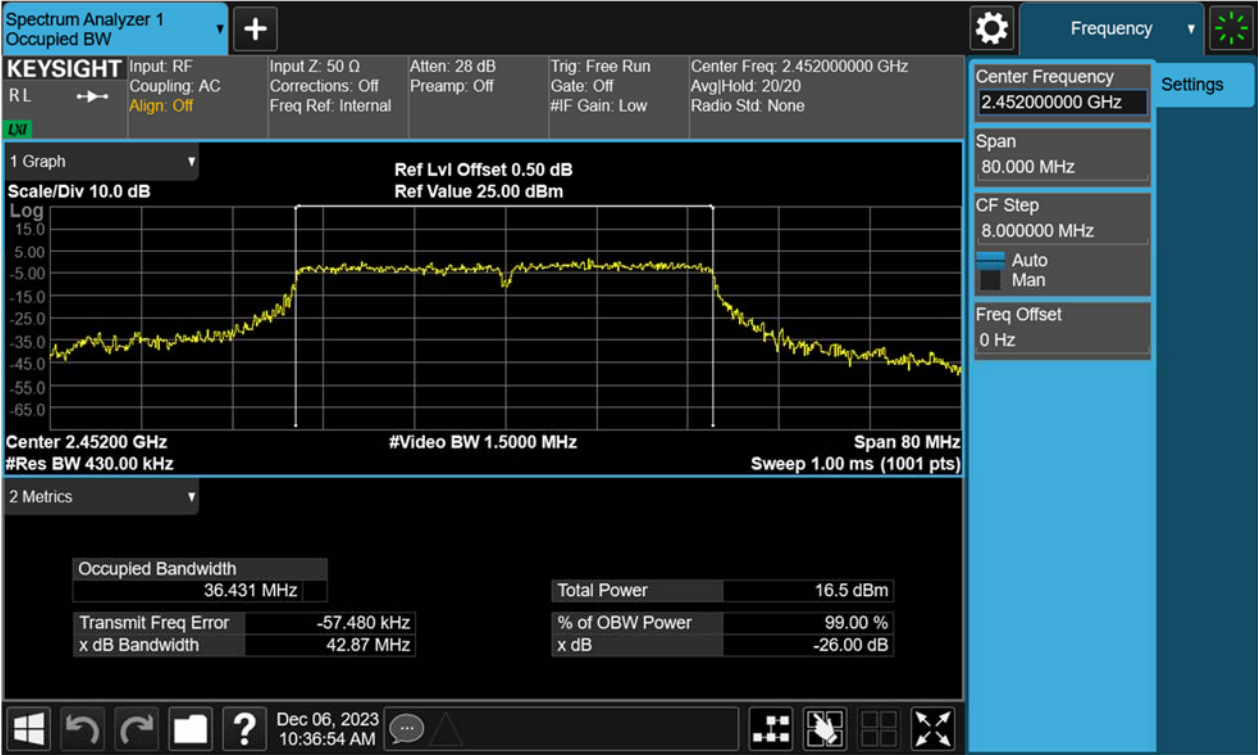
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Figure12: 6dB Bandwidth, 802.11n(HT40), 2452MHz



99% Bandwidth, 802.11n(HT40), 2452MHz



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4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e), RSS-247 5.2(b)
Requirement : ANSI C63.10-2013, Clause 11.10.2
KDB 558074 D01 v05r02, Clause 8.4
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 22.7°C
Relative humidity : 47%

Table 4: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-10.81	≤8
	2437	-10.14	
	2462	-10.29	
802.11g	2412	-12.55	
	2437	-12.73	
	2462	-13.12	
802.11n(HT20)	2412	-12.10	
	2437	-12.73	
	2462	-12.05	
802.11n(HT40)	2422	-16.45	
	2437	-15.86	
	2452	-17.14	

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Figure 13: Power Spectral Density, 802.11b, 2412MHz

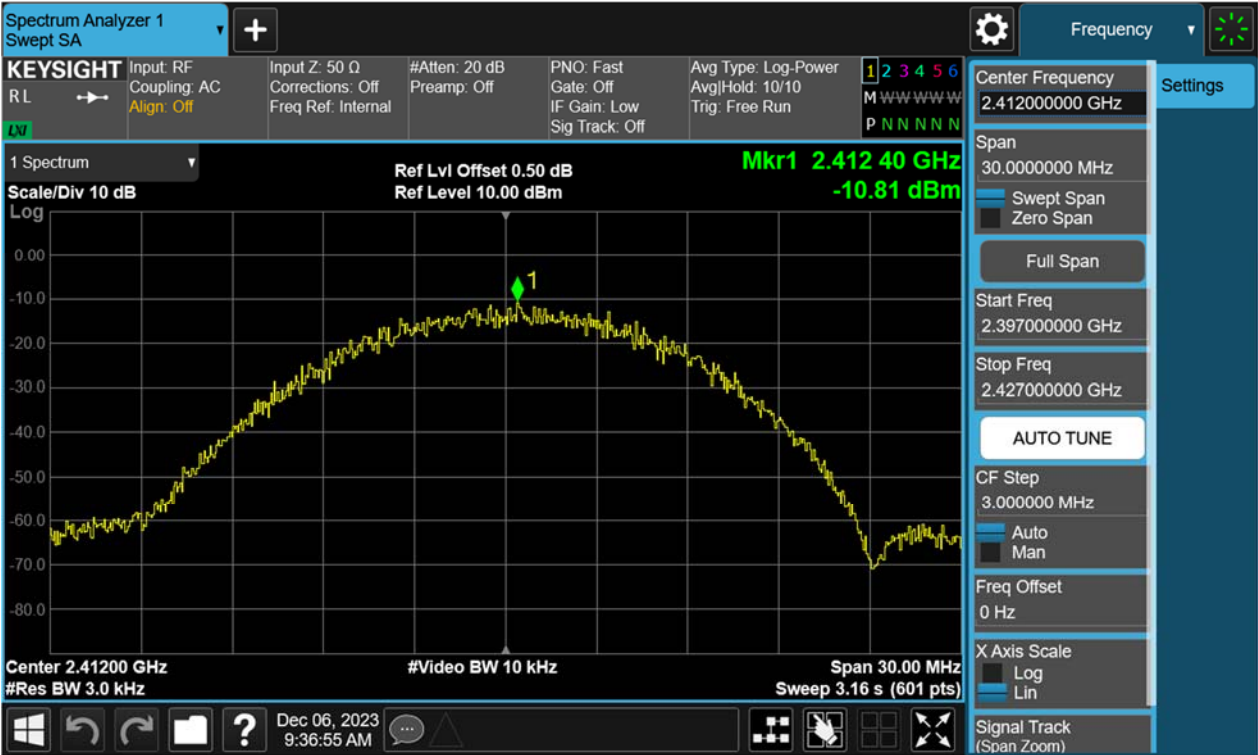


Figure 14: Power Spectral Density, 802.11b, 2437MHz



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Figure 15: Power Spectral Density, 802.11b, 2462MHz

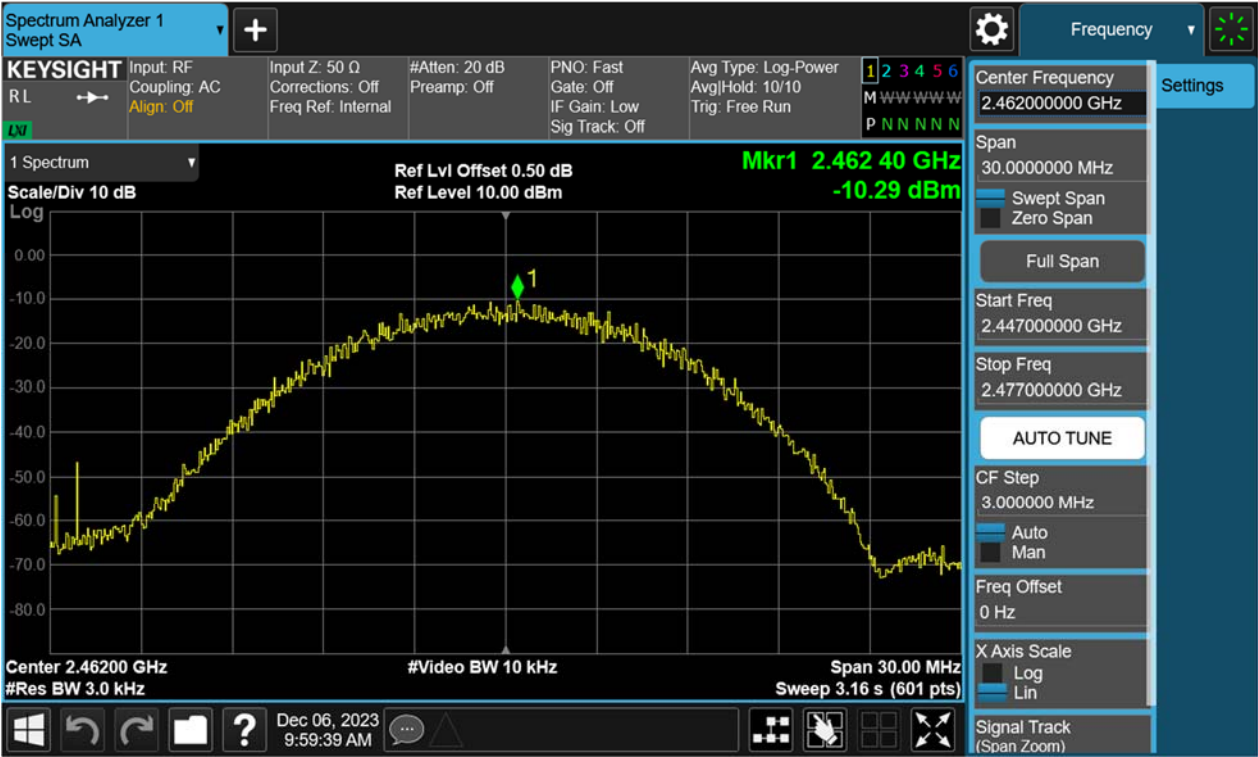
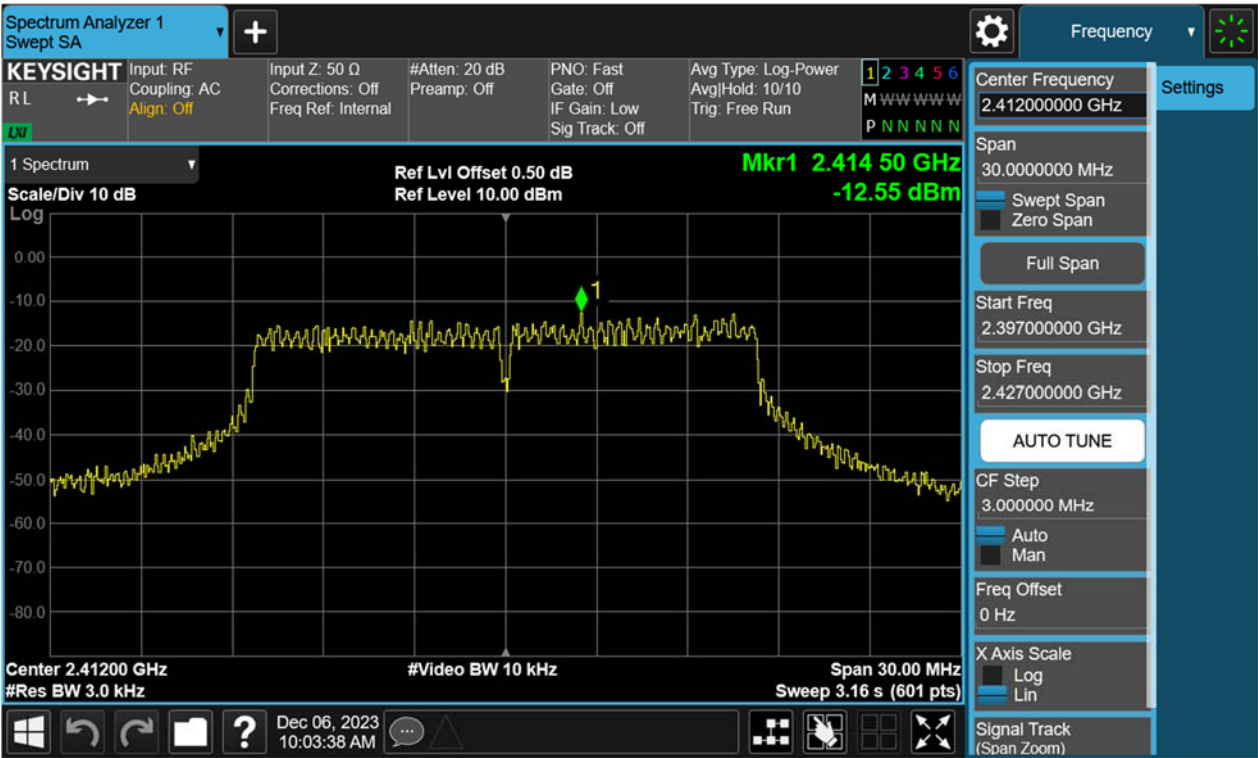


Figure 16: Power Spectral Density, 802.11g, 2412MHz



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Figure 17: Power Spectral Density, 802.11g, 2437MHz

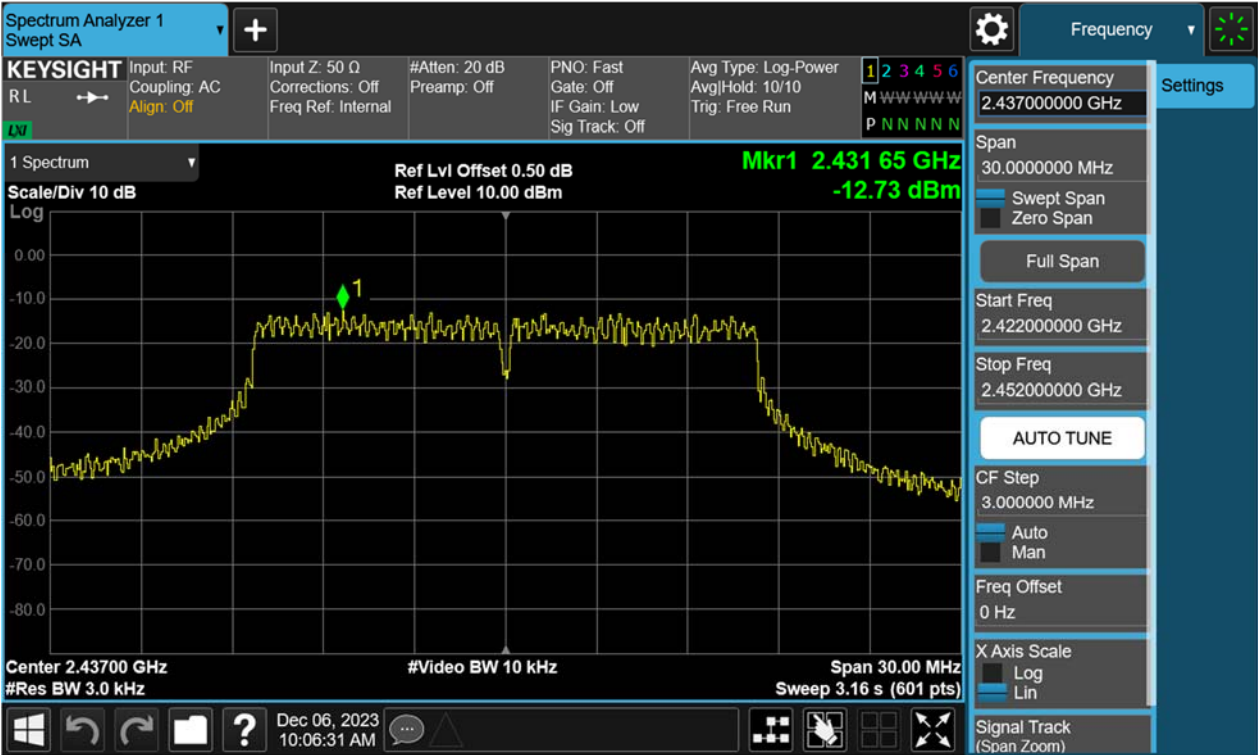
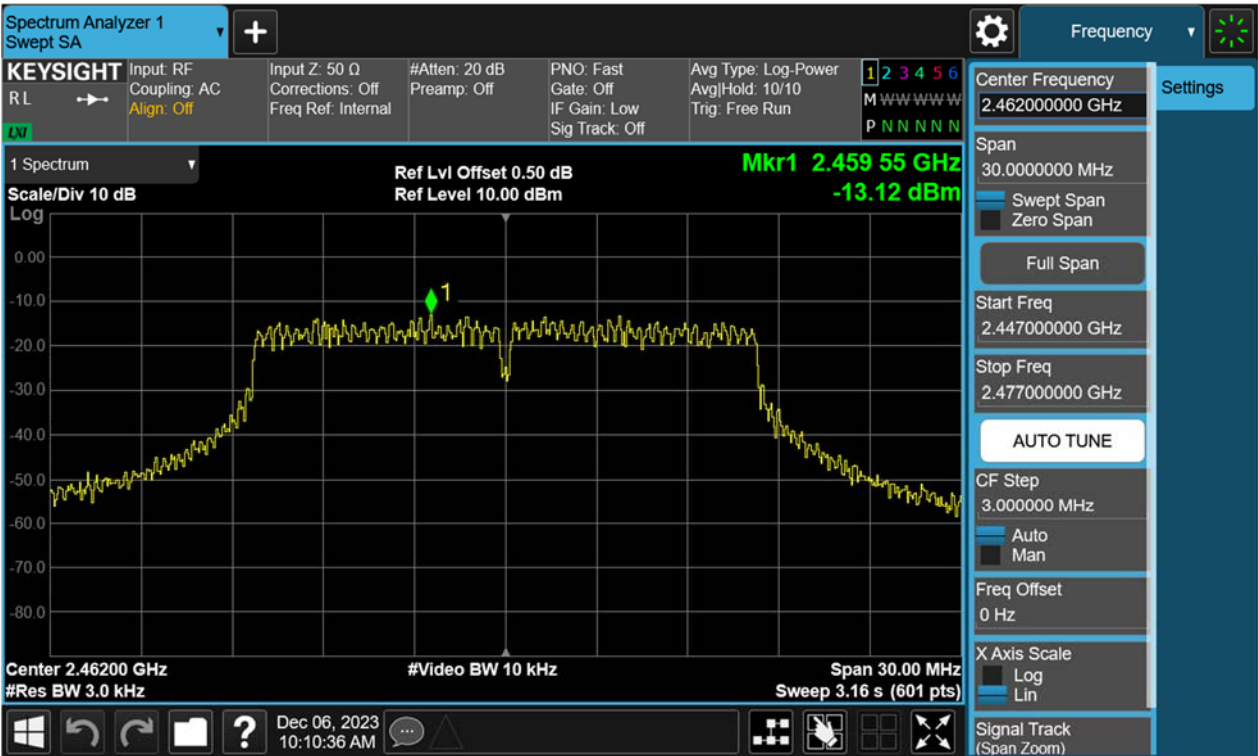


Figure 18: Power Spectral Density, 802.11g, 2462MHz



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Figure 19: Power Spectral Density, 802.11n(HT20), 2412MHz

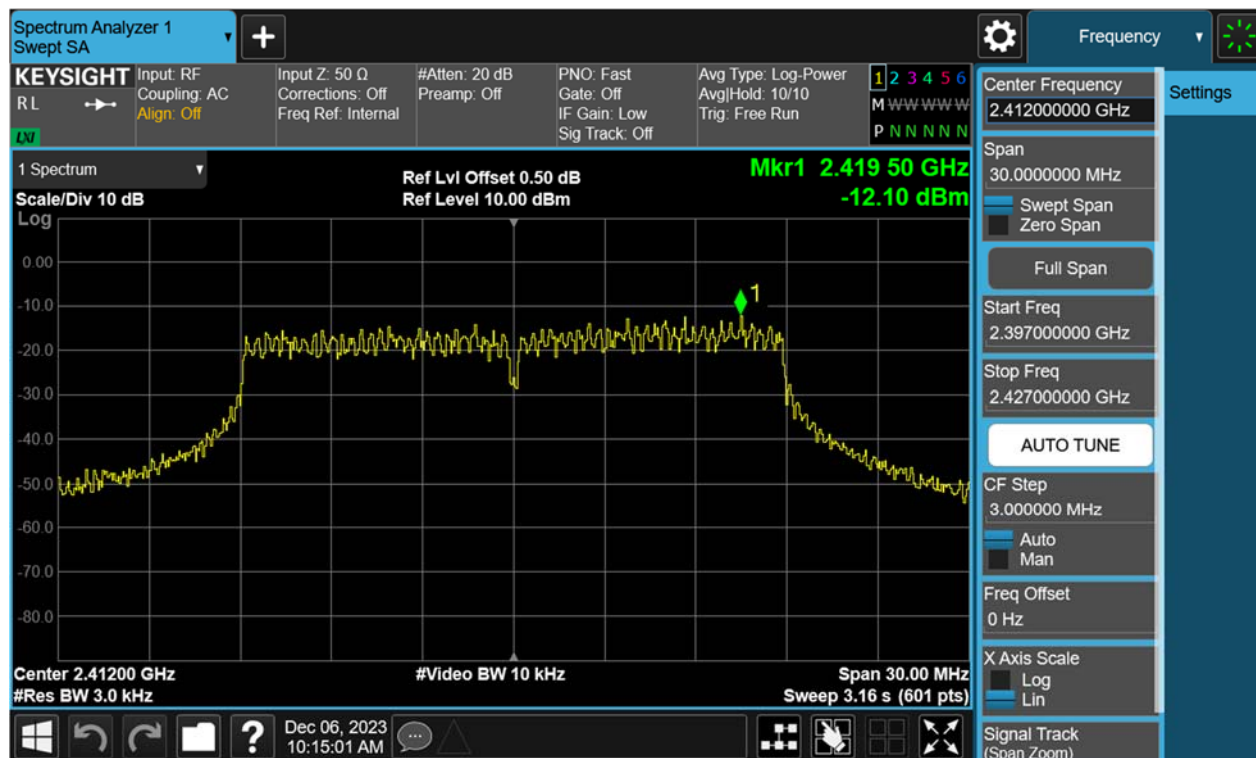
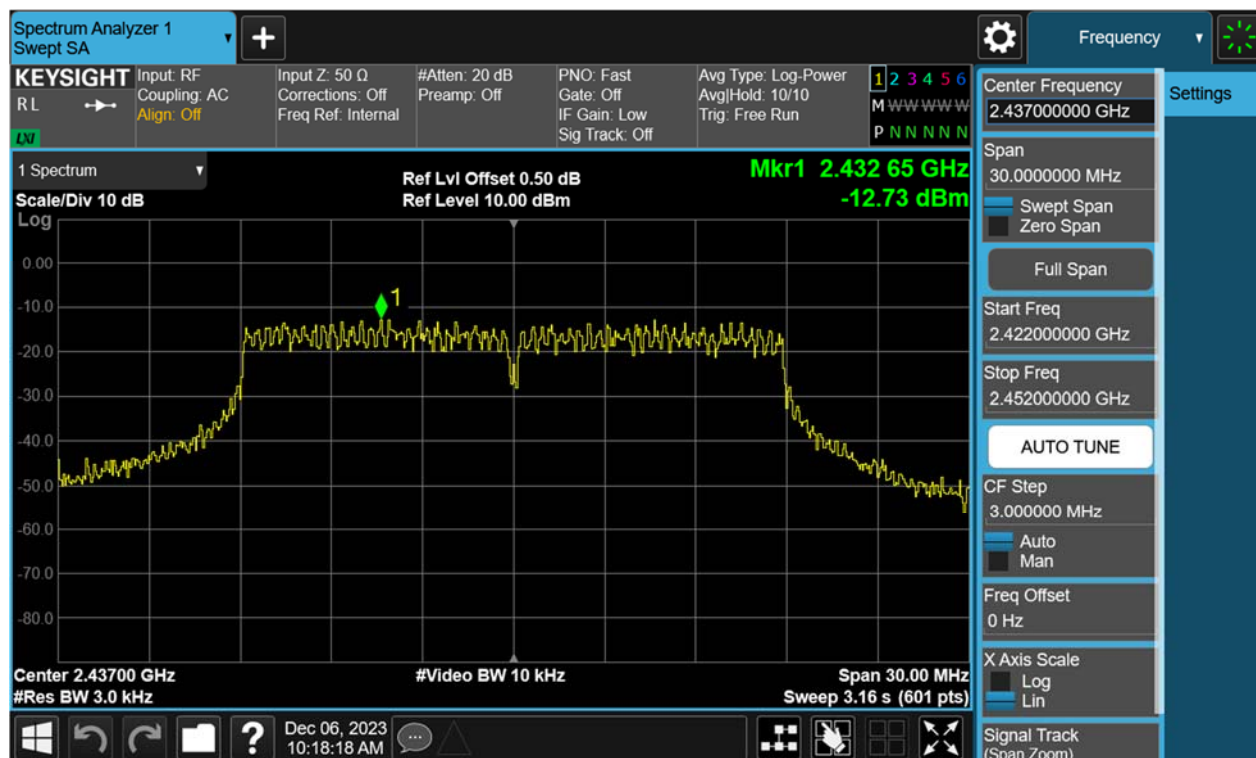


Figure 20: Power Spectral Density, 802.11n(HT20), 2437MHz



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Figure 21: Power Spectral Density, 802.11n(HT20), 2462MHz

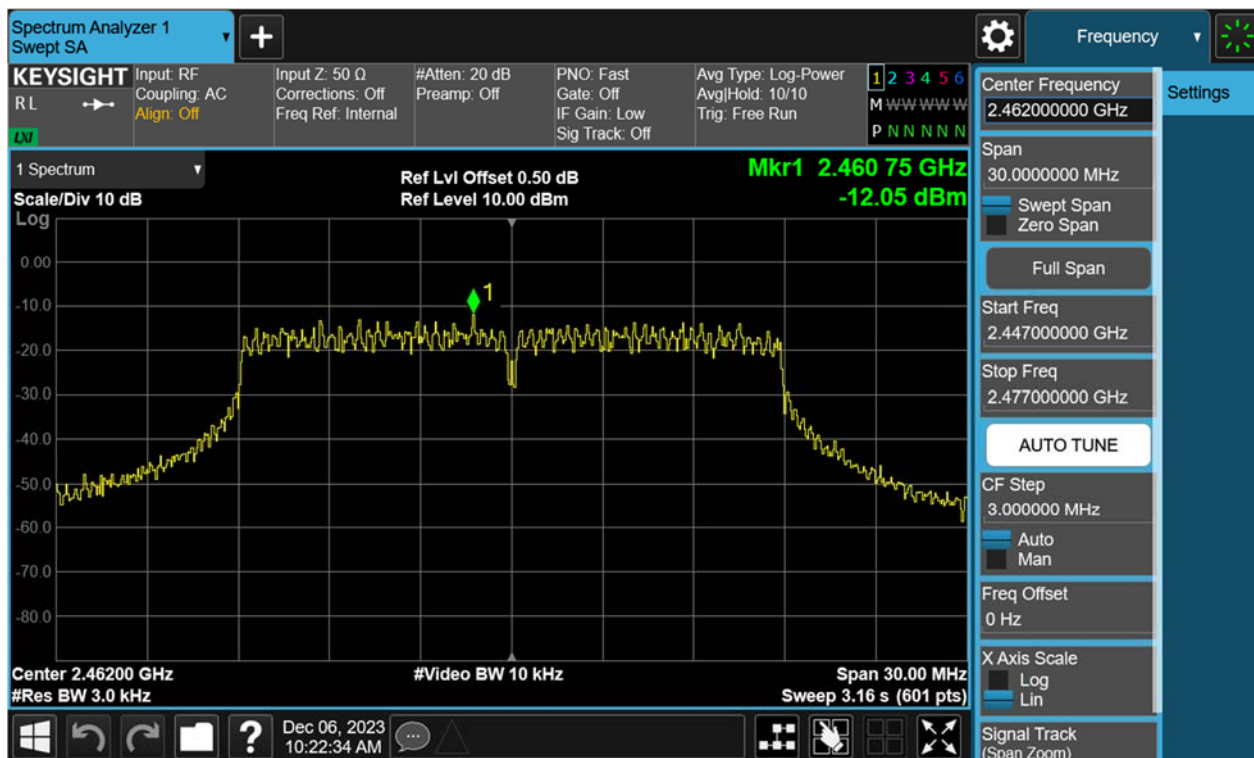
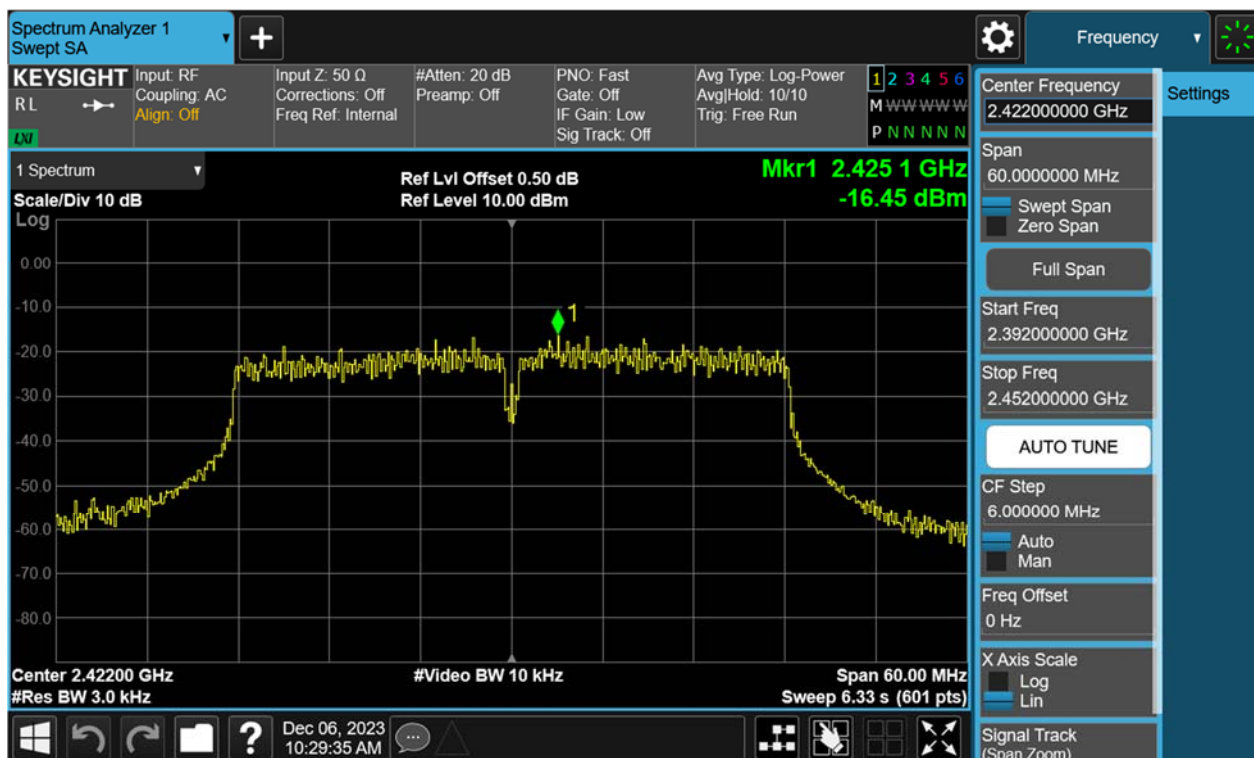


Figure 22: Power Spectral Density, 802.11n(HT40), 2422MHz



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Figure 23: Power Spectral Density, 802.11n(HT40), 2437MHz

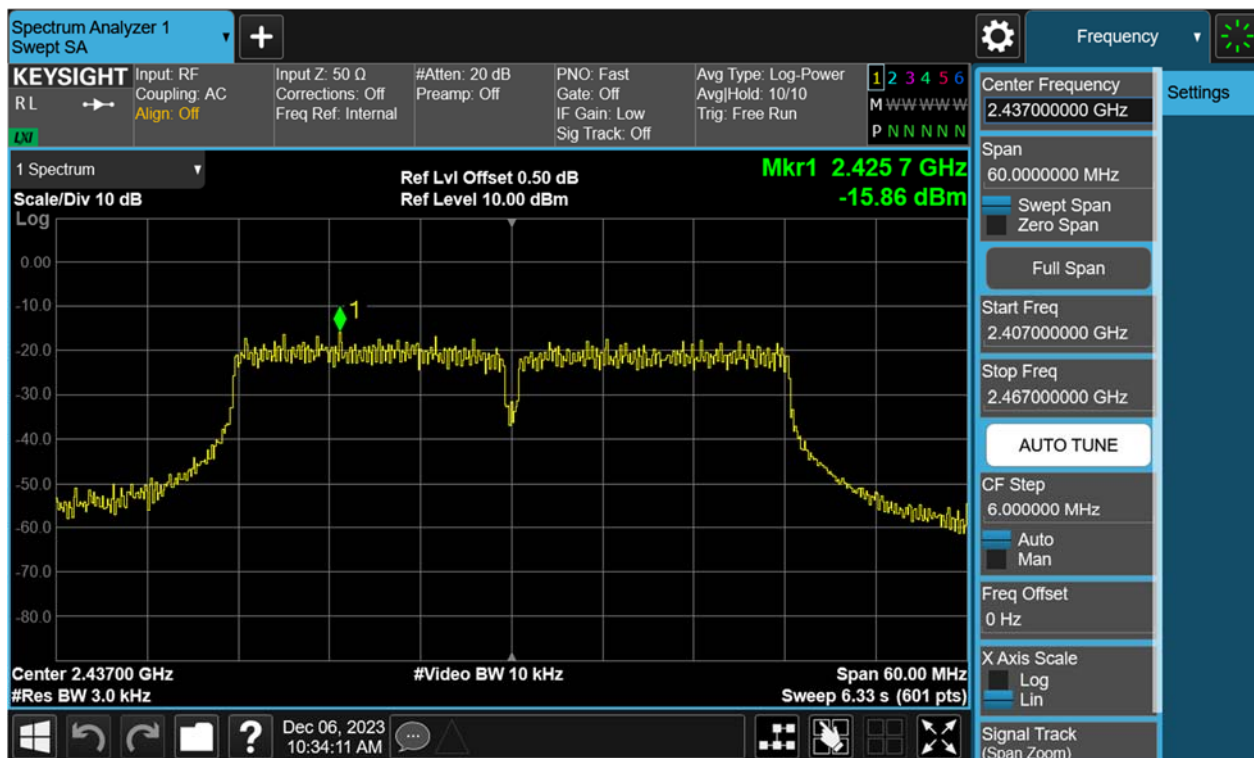
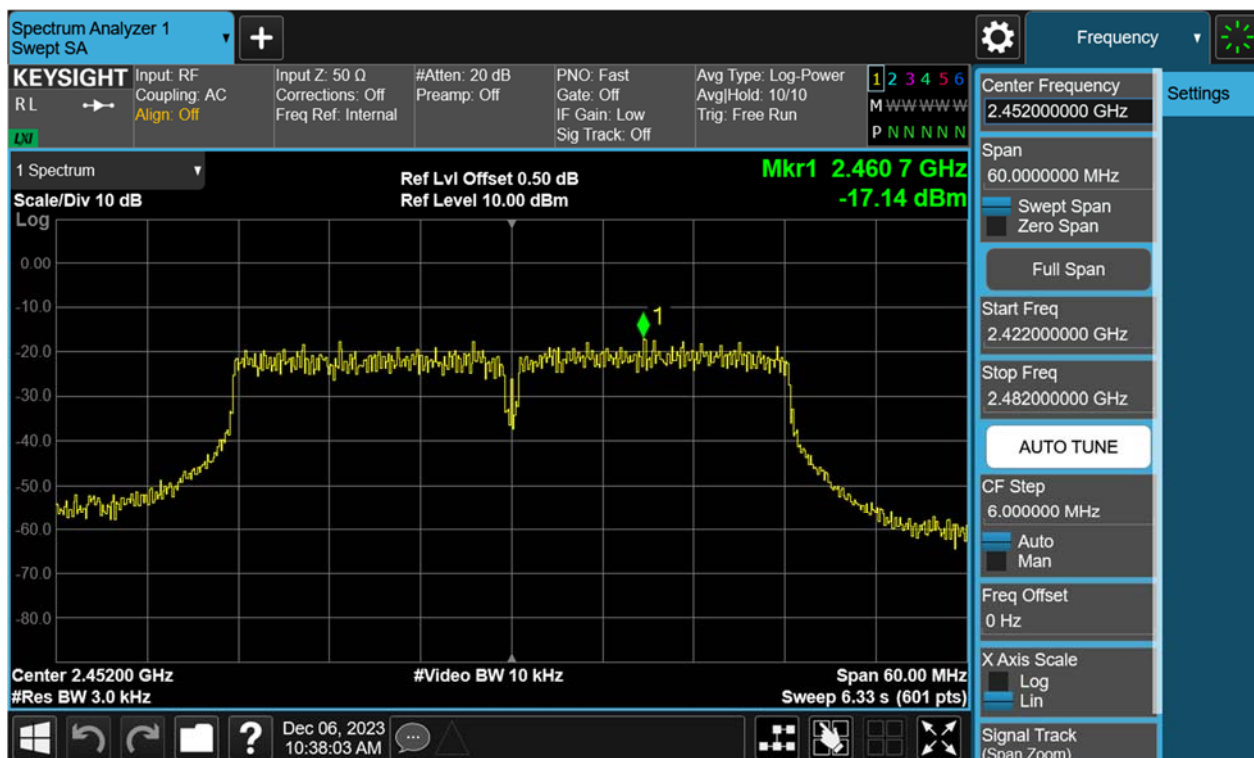


Figure 24: Power Spectral Density, 802.11n(HT40), 2452MHz



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard

: FCC Part 15.247(d), 15.209, RSS-247 5.5

Requirement

: ANSI C63.10-2013, Clause 11.11.1(b)
KDB 558074 D01 v05r02, Clause 8.5

Kind of test site

: Shielded room

Test setup

Test Channel

: Low/Middle/High for spurious, Low/High for Band
Edge

Operation Mode

: A.1.a

Ambient temperature

: 22.7°C

Relative humidity

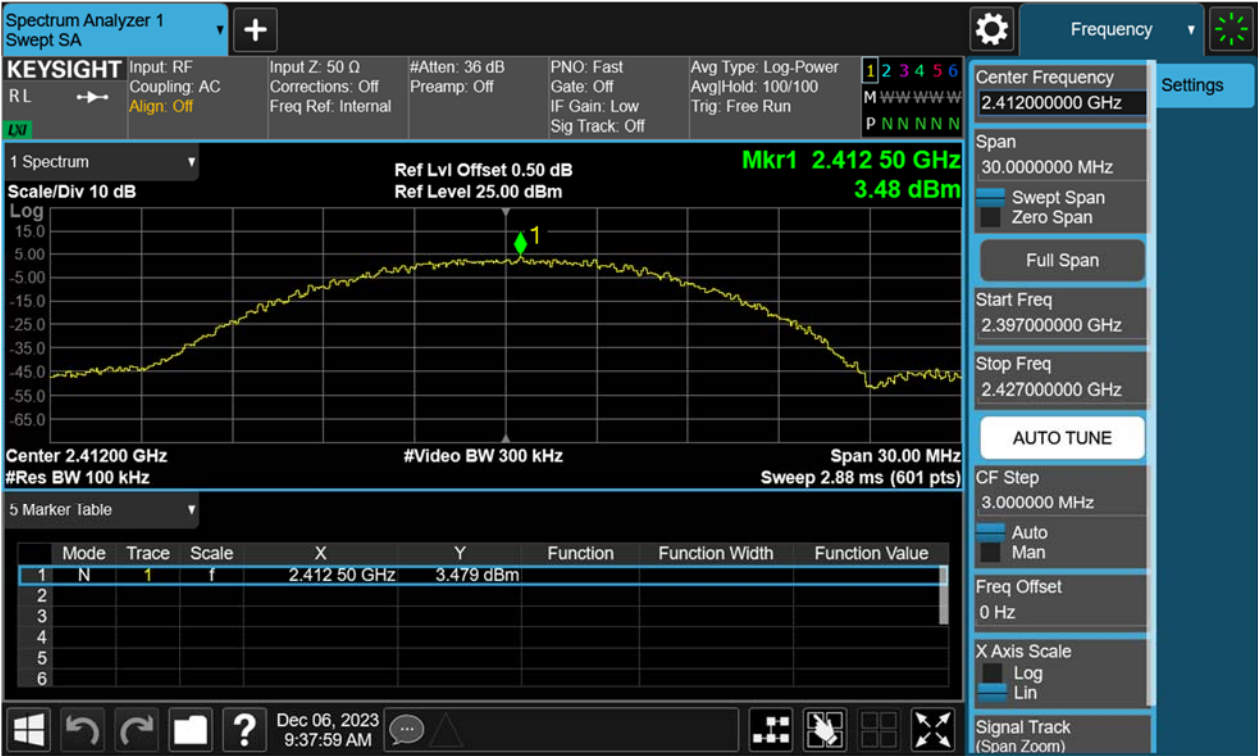
: 47%

For details refer to following test plot.

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Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2412MHz Carrier Level



Band Edge

