RF TEST REPORT

Applicant	Daiichi Elektronik Sanayi ve Ticaret A.S.
FCC ID	2AOI6-VQC1006
Product	A7+ 10.25inch w/DAB w/Wireless CP&AA&FM&AM
Brand	Daiichi
Model	VQC1006
Report No.	EFTA25010109-IE-11-R1V1
Issue Date	May 27, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying | *Approved by: Xu Kai*

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 31, 2025
Rev.1	Updated information.	May 27, 2025
Note: This revised report (Report No.: EFTA25010109-IE-11-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25010109-IE-11-R1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Maximum output power	15.247(b)(3)	PASS
2	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
7	Conducted Emissions	15.207	NA Note 1

Date of Testing: January 9, 2025 ~ February 27, 2025
Date of Sample Received: January 9, 2025

Note:
1. The equipment is not connected to the public network, so test items do not apply.
2. PASS: The EUT complies with the essential requirements in the standard.
   FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

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1. Test Laboratory

1.1. Notes of the Test Report

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1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	https://www.eurofins.com/electrical-and-electronics
E-mail:	Kain.Xu@cpt.eurofinscn.com

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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Daiichi Elektronik Sanayi ve Ticaret A.S.
Applicant address	Ferhatpaşa mah. 16. Sok.No:38 Ataşehir/Istanbul
Manufacturer	Daiichi Elektronik Sanayi ve Ticaret A.S.
Manufacturer address	Ferhatpaşa mah. 16. Sok.No:38 Ataşehir/Istanbul

2.2. General Information

EUT Description	
Model	VQC1006
Lab internal SN	EFTA25010109-IE-11/S01
Hardware Version	1.0.2
Software Version	1.0.8
Power Supply	External power supply
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	2.0 dBi
Additional Beamforming Gain	NA
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz
Modulation Type	802.11b: DSSS 802.11g/n: OFDM
Max. Output Power	Wi-Fi 2.4GHz: 18.80 dBm
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

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3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2024) Radio Frequency Devices

ANSI C63.10-2013

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

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4. Test Configuration

Test Mode

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

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

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5. Test Case Results

5.1. Maximum output power

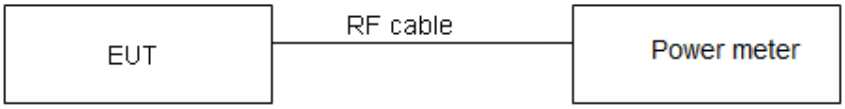
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	≤ 1W (30dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

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Test Results

Power Index					
Channel	**802.11b**	**802.11g**	**802.11n HT20**	**Channel**	**802.11n HT40**
CH1	18	14	14	**CH3**	14
CH6	18	14	14	**CH6**	14
CH11	18	14	14	**CH9**	14

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11b	99.86	0.00
802.11g	99.73	0.00
802.11n HT20	99.97	0.00
802.11n HT40	99.09	0.00
Note: when Duty cycle⩾0.98, Duty cycle correction Factor not required.		

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Test Mode	Carrier frequency (MHz)/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH 1	18.21	18.21	30	PASS
	2437/CH 6	18.18	18.18	30	PASS
	2462/CH11	18.80	18.80	30	PASS
802.11g	2412/CH 1	14.49	14.49	30	PASS
	2437/CH 6	14.67	14.67	30	PASS
	2462/CH11	14.33	14.33	30	PASS
802.11n HT20	2412/CH 1	14.61	14.61	30	PASS
	2437/CH 6	14.84	14.84	30	PASS
	2462/CH11	14.71	14.71	30	PASS
802.11n HT40	2422/CH3	14.60	14.60	30	PASS
	2437/CH6	14.70	14.70	30	PASS
	2452/CH9	14.65	14.65	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

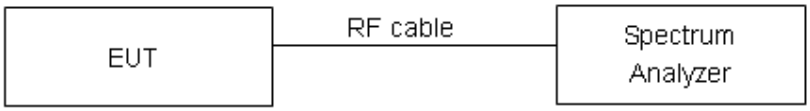
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.
Dector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

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Test Results:

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	13.451	10.042	500	PASS
	2437	13.472	10.060	500	PASS
	2462	13.480	10.043	500	PASS
802.11g	2412	16.675	16.399	500	PASS
	2437	16.697	16.387	500	PASS
	2462	16.671	16.491	500	PASS
802.11n HT20	2412	17.699	17.572	500	PASS
	2437	17.711	17.592	500	PASS
	2462	17.693	17.583	500	PASS
802.11n HT40	2422	36.259	35.787	500	PASS
	2437	36.274	35.788	500	PASS
	2452	36.235	35.696	500	PASS

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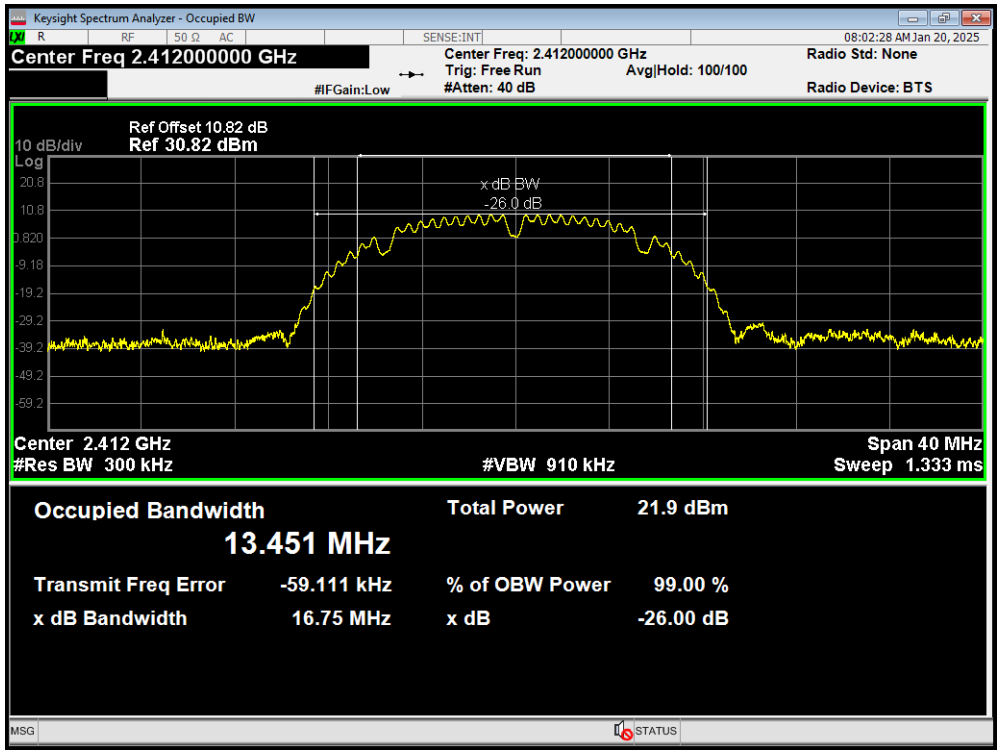
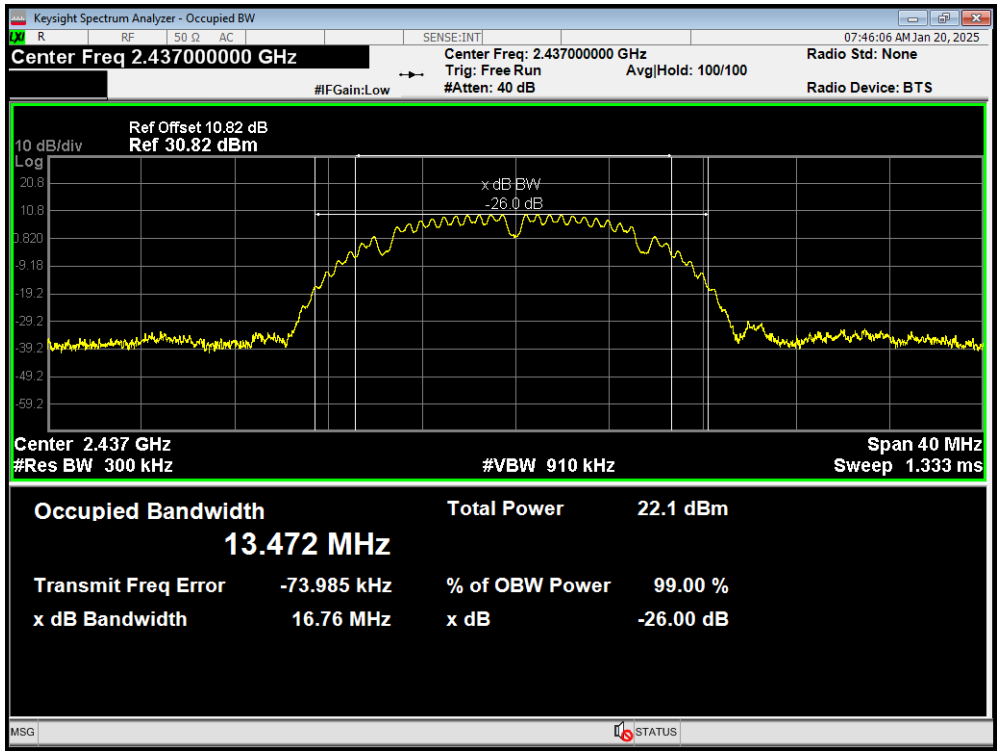
99%bandwidth

OBW 802.11b 2412MHz



OBW 802.11b 2437MHz



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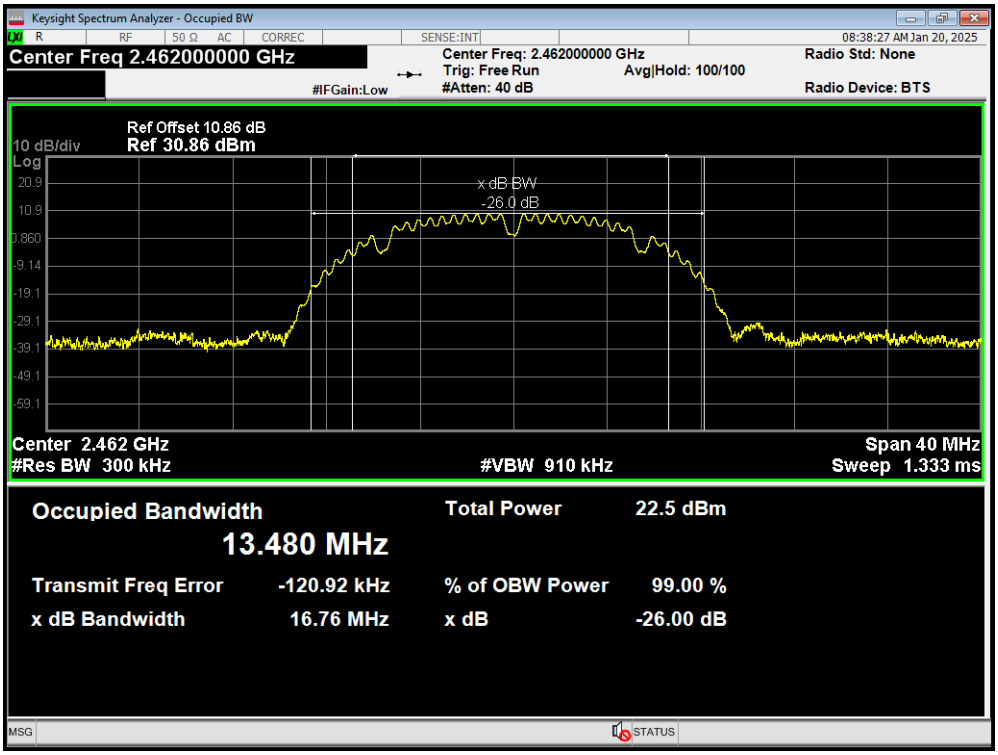
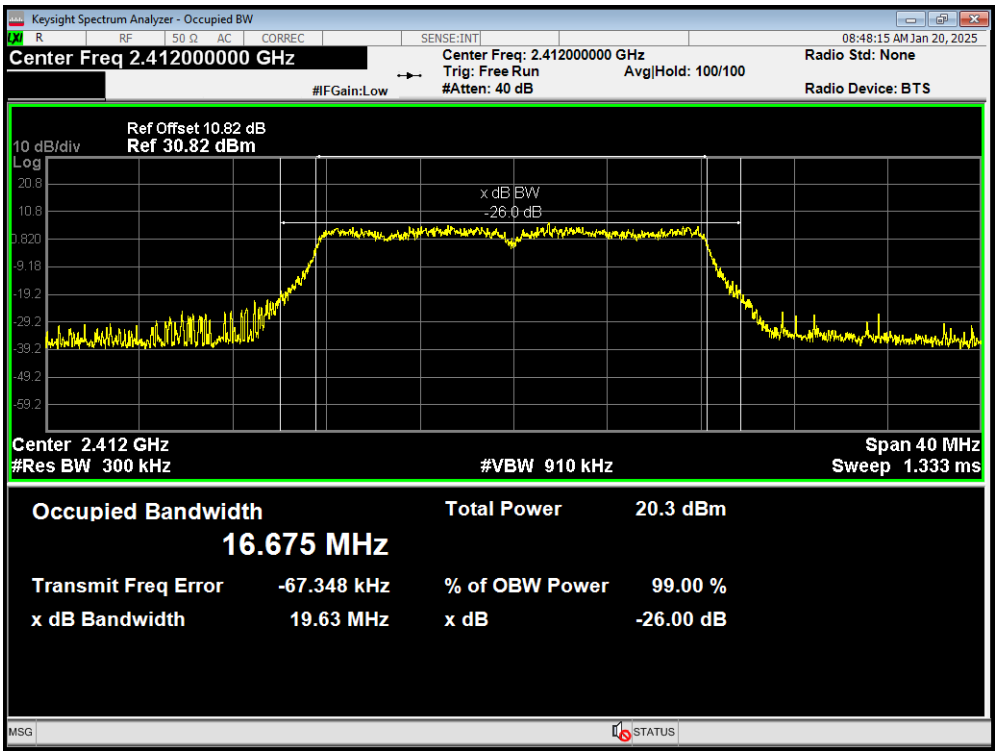
OBW 802.11b 2462MHz



OBW 802.11g 2412MHz



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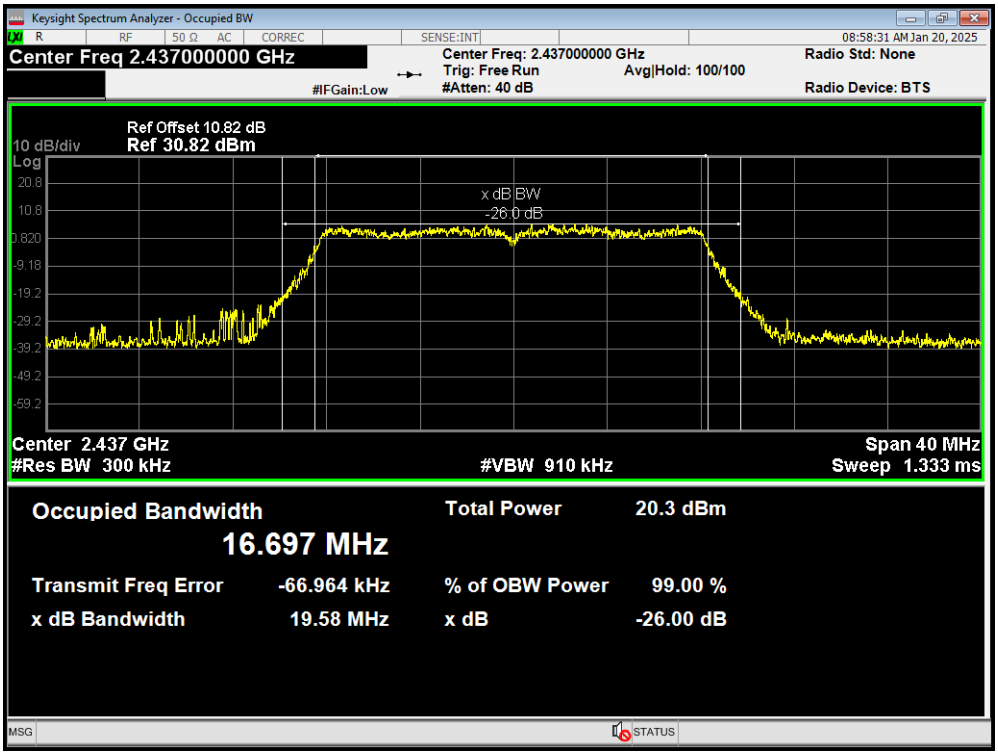
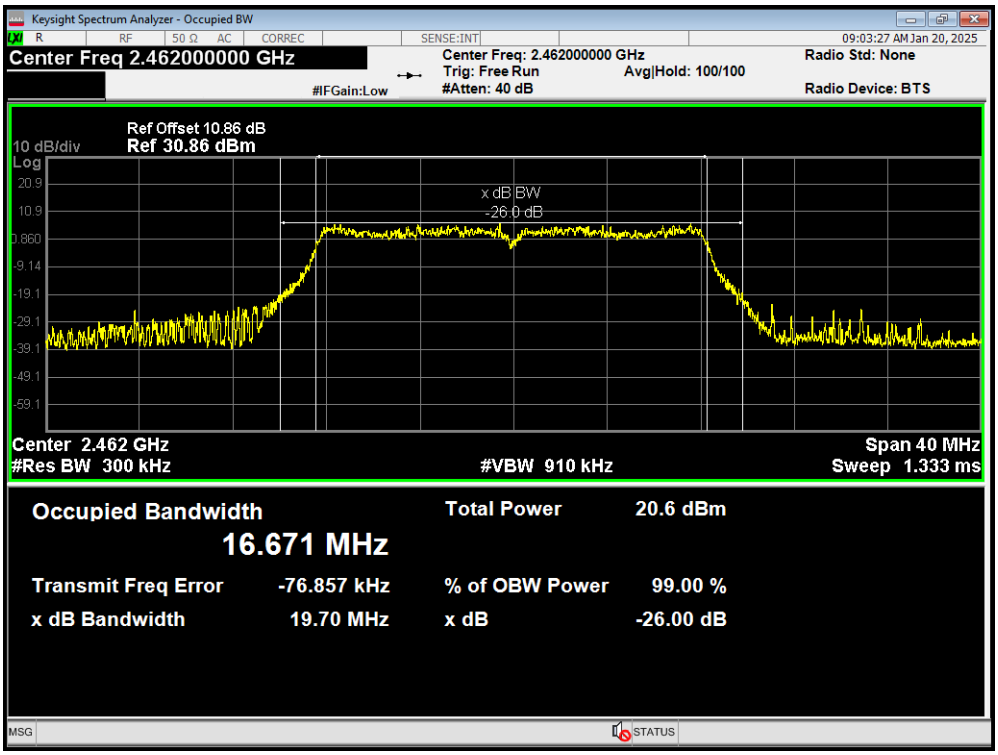
OBW 802.11g 2437MHz



OBW 802.11g 2462MHz



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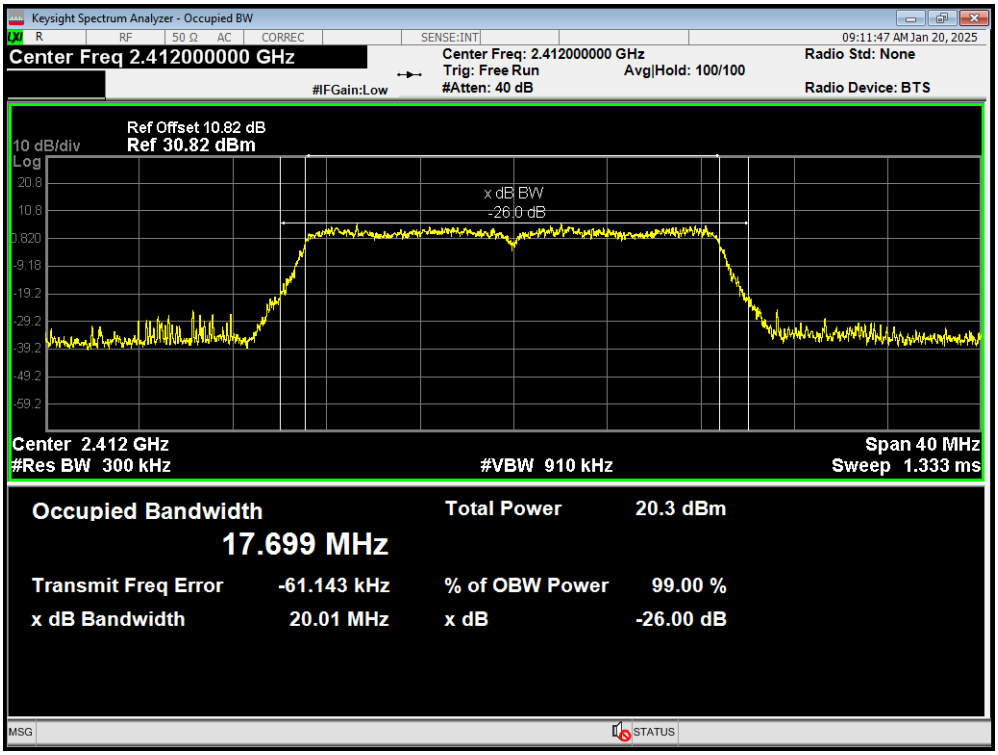
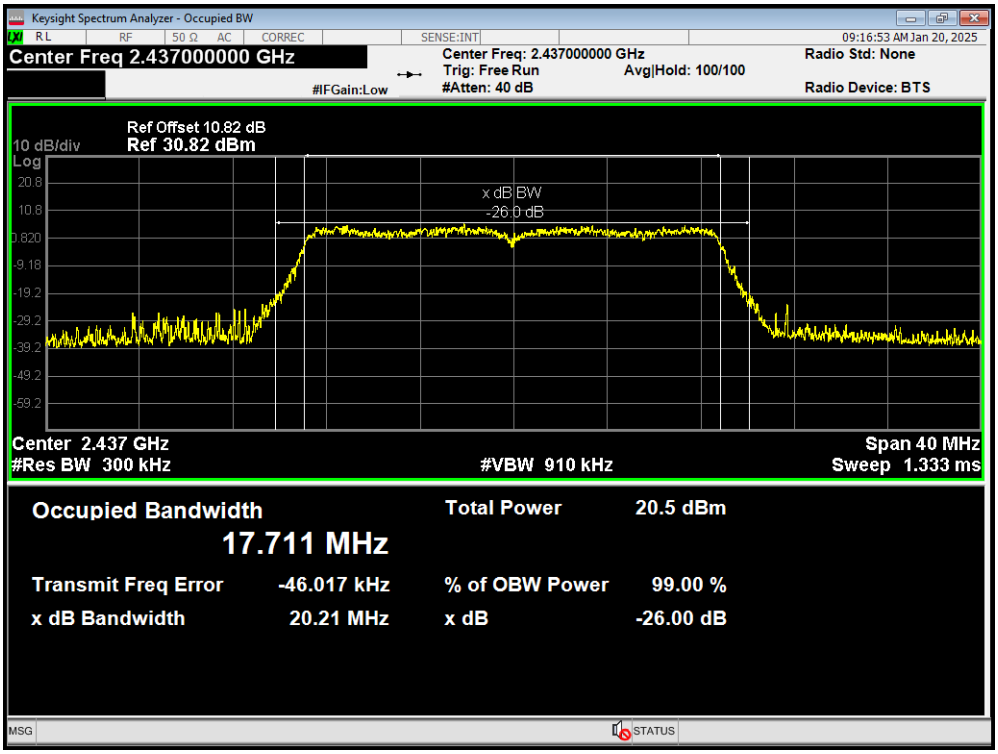
OBW 802.11n(HT20) 2412MHz



OBW 802.11n(HT20) 2437MHz



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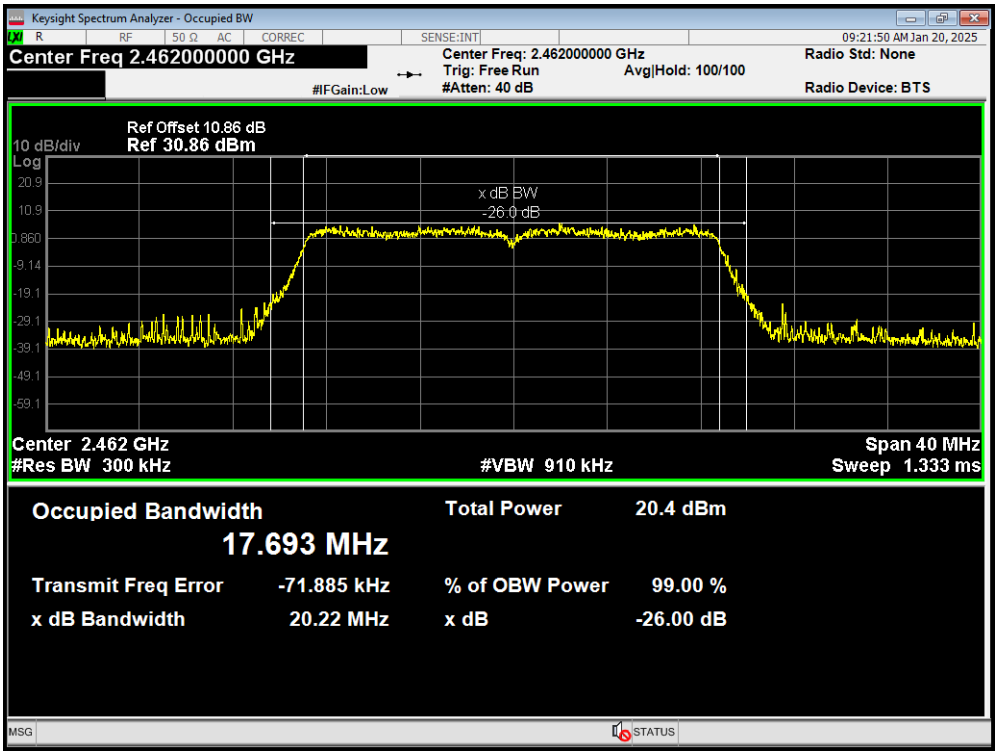
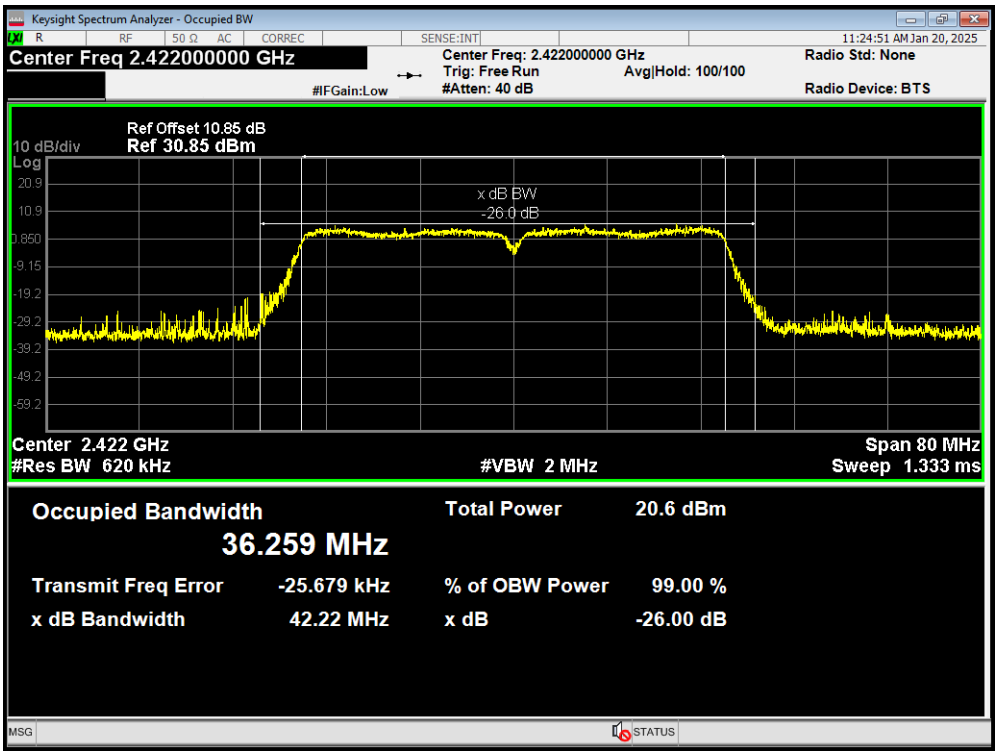
OBW 802.11n(HT20) 2462MHz



OBW 802.11n(HT40) 2422MHz



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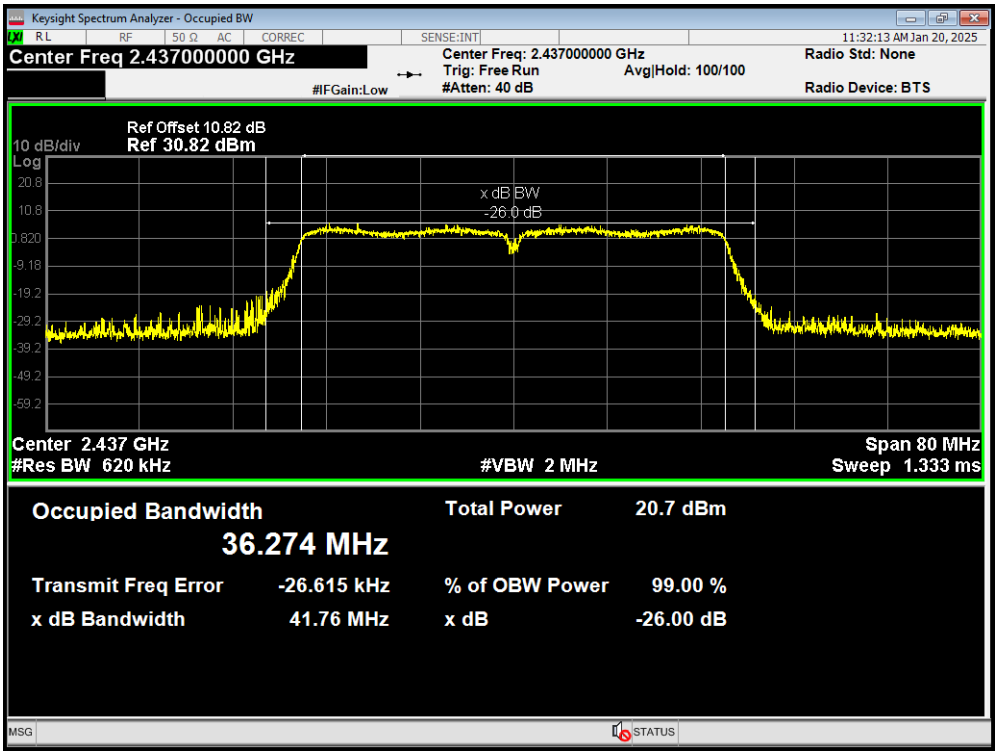
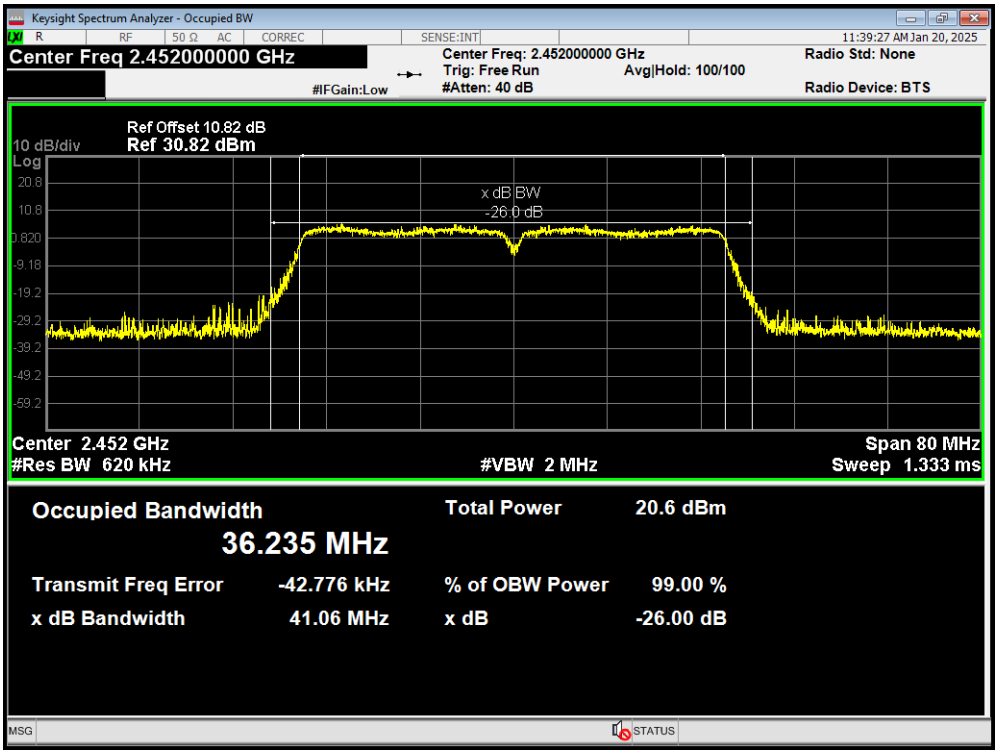
OBW 802.11n(HT40) 2437MHz



OBW 802.11n(HT40) 2452MHz



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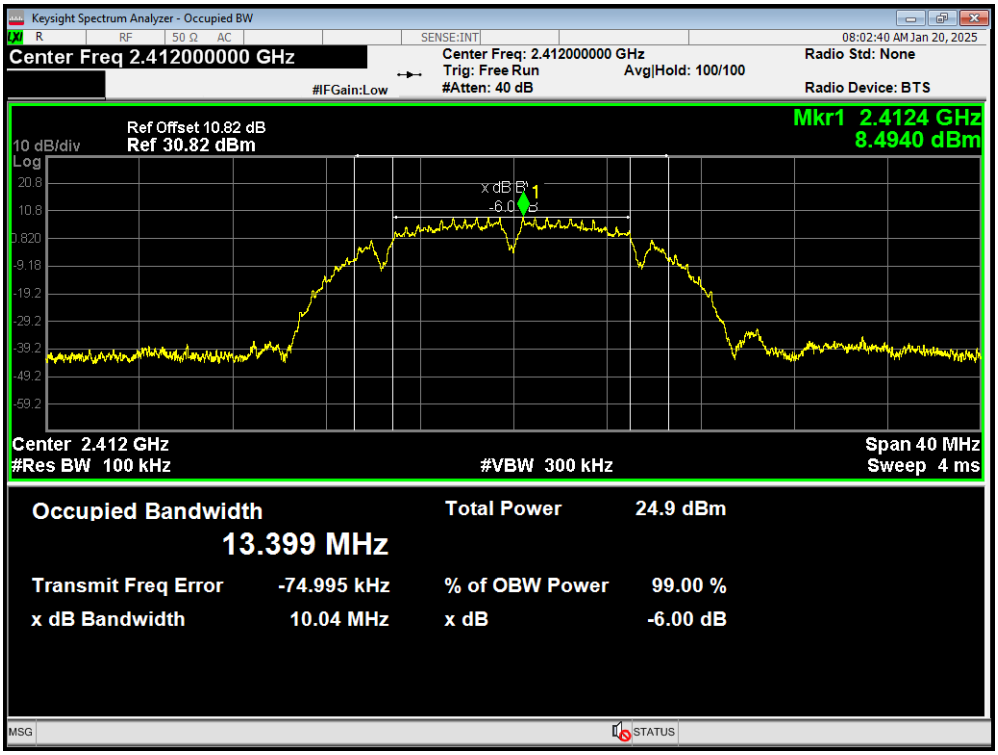
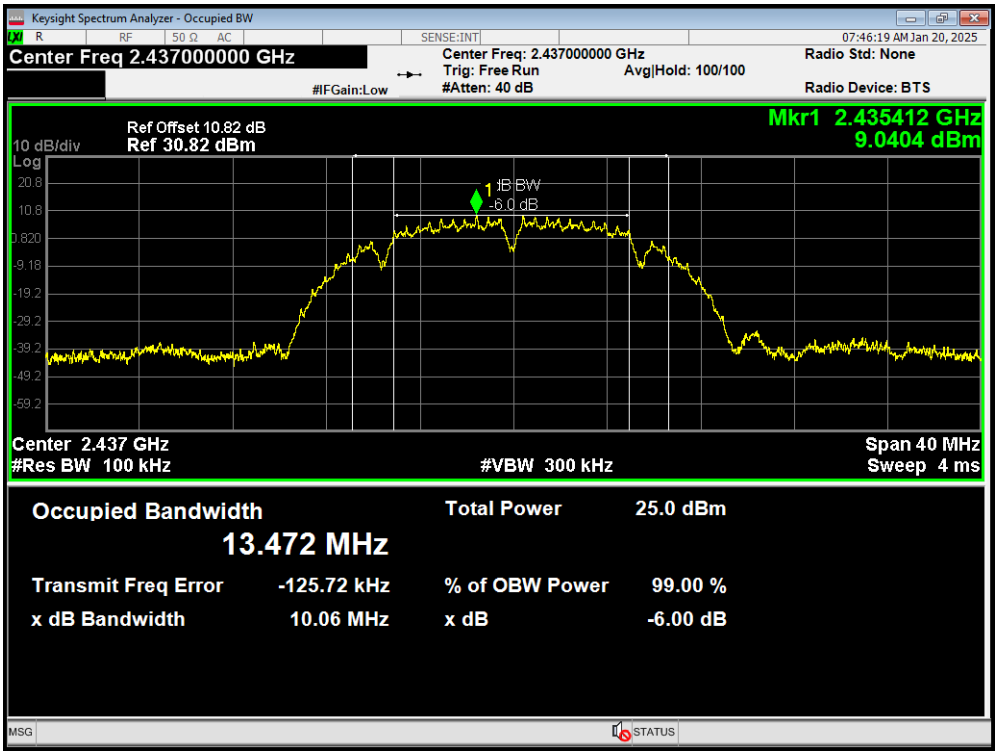
6 dB bandwidth

-6dB Bandwidth 802.11b 2412MHz



-6dB Bandwidth 802.11b 2437MHz



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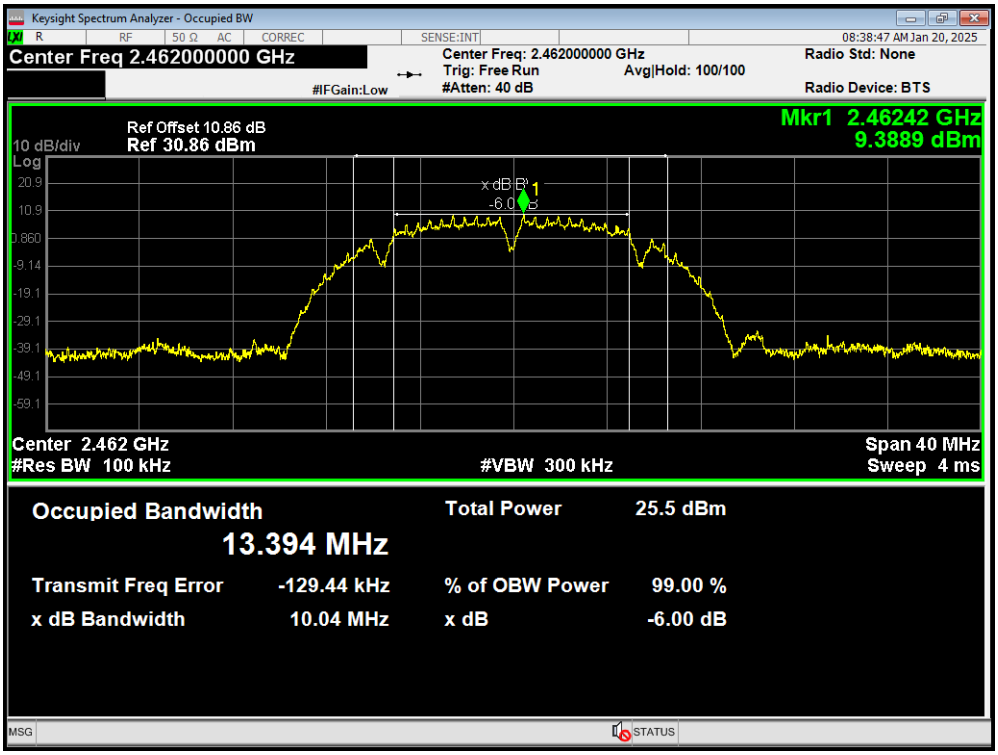
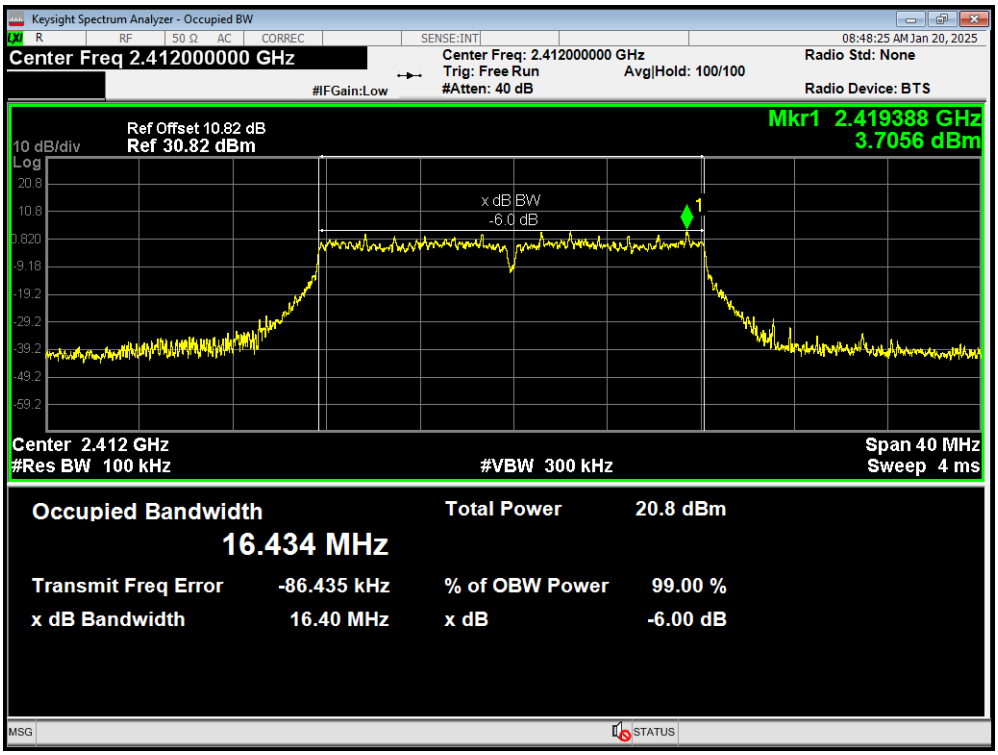
-6dB Bandwidth 802.11b 2462MHz



-6dB Bandwidth 802.11g 2412MHz



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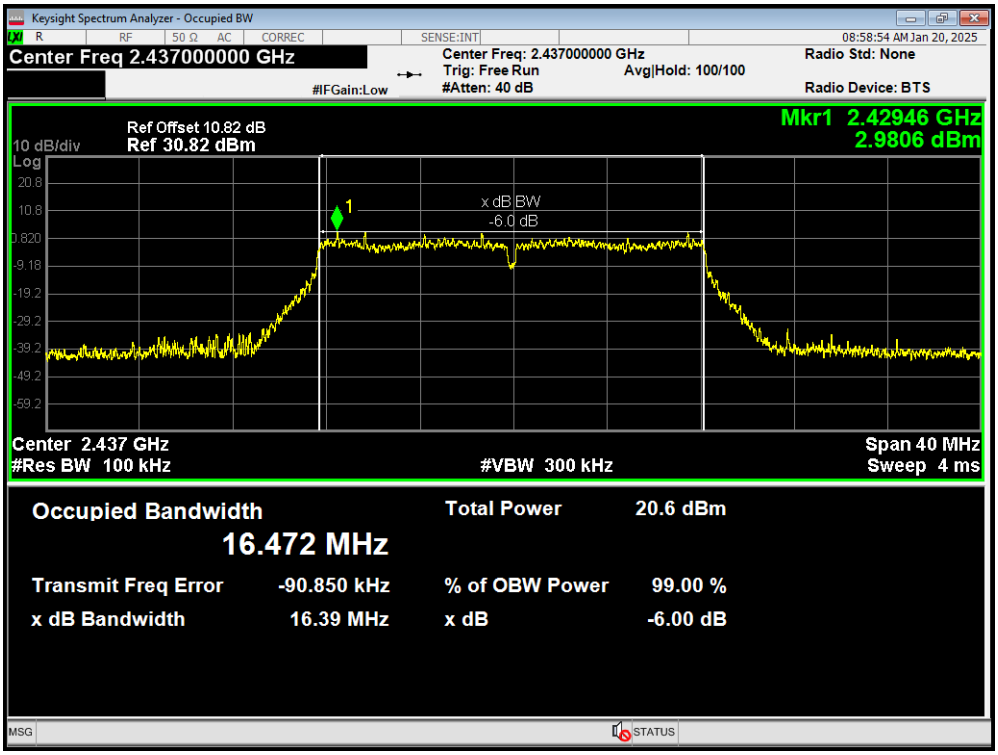
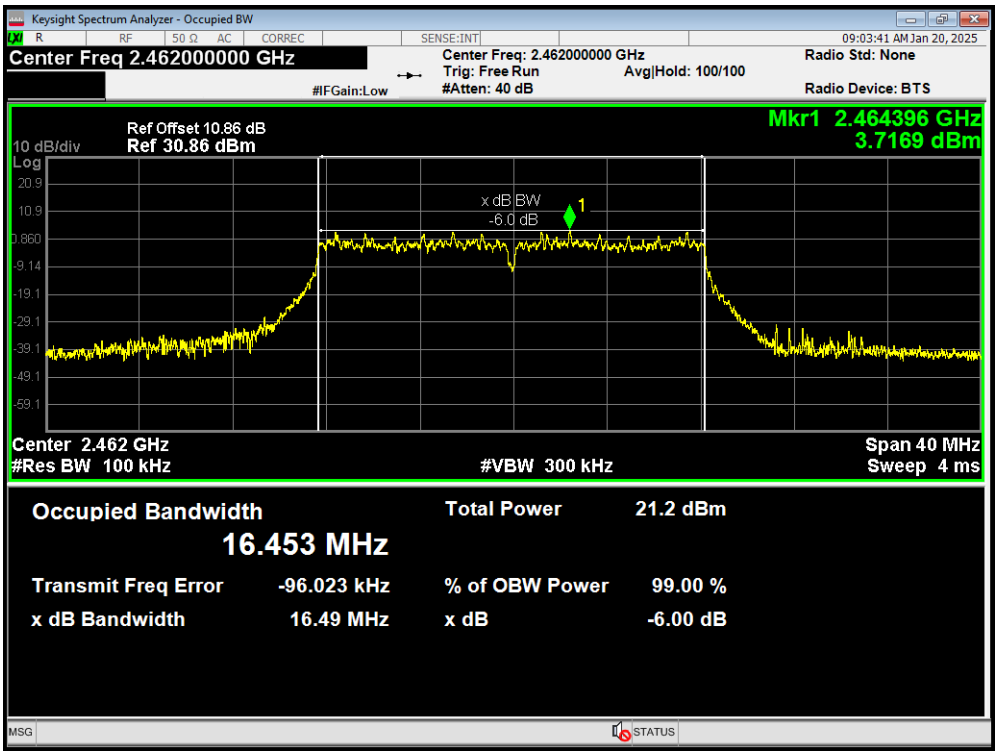
-6dB Bandwidth 802.11g 2437MHz



-6dB Bandwidth 802.11g 2462MHz



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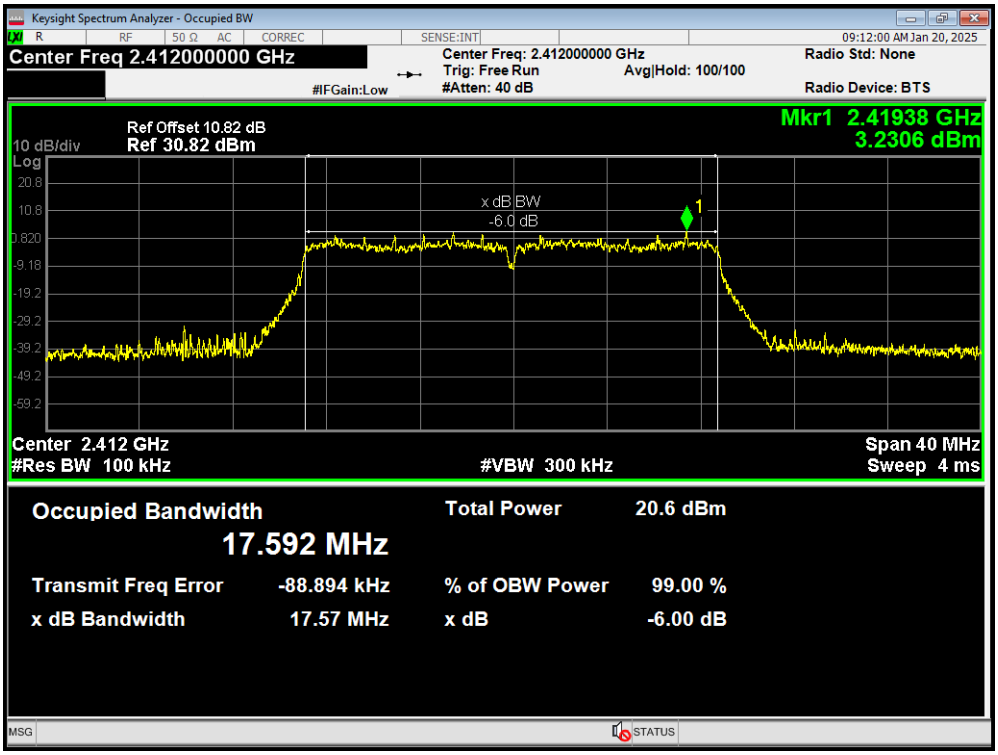
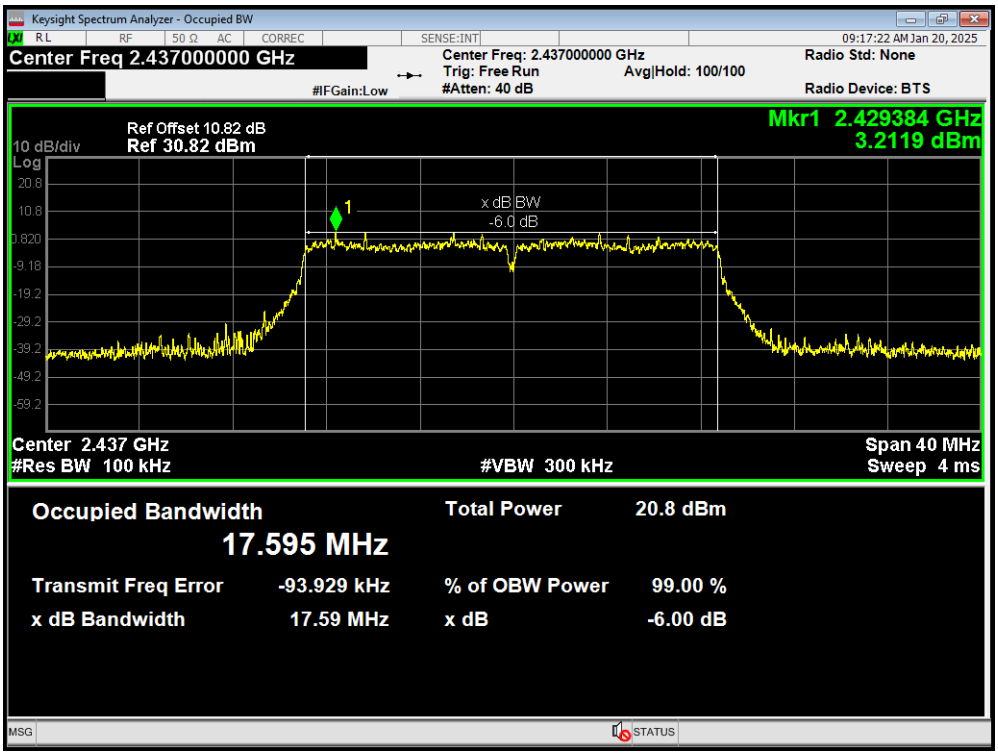
-6dB Bandwidth 802.11n(HT20) 2412MHz



-6dB Bandwidth 802.11n(HT20) 2437MHz



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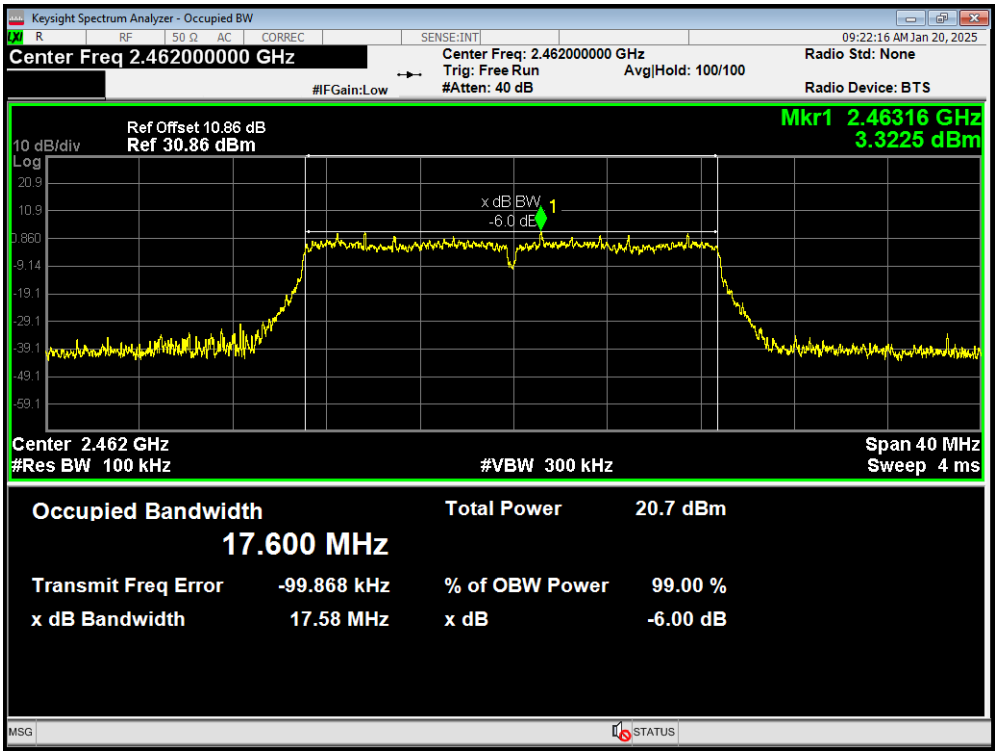
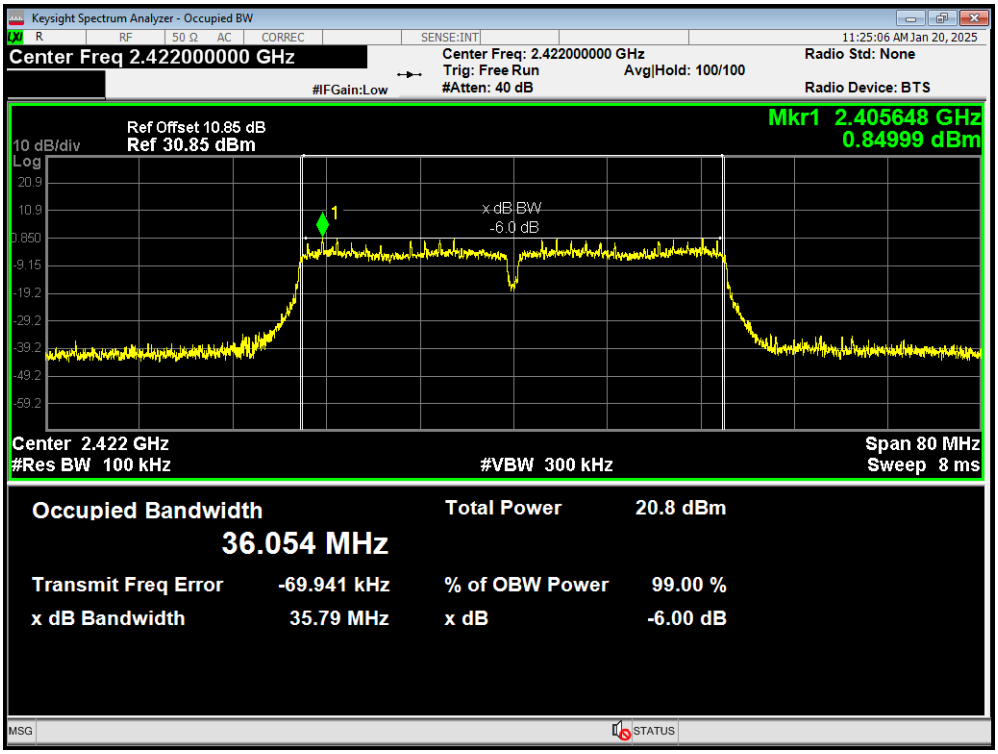
-6dB Bandwidth 802.11n(HT20) 2462MHz



-6dB Bandwidth 802.11n(HT40) 2422MHz



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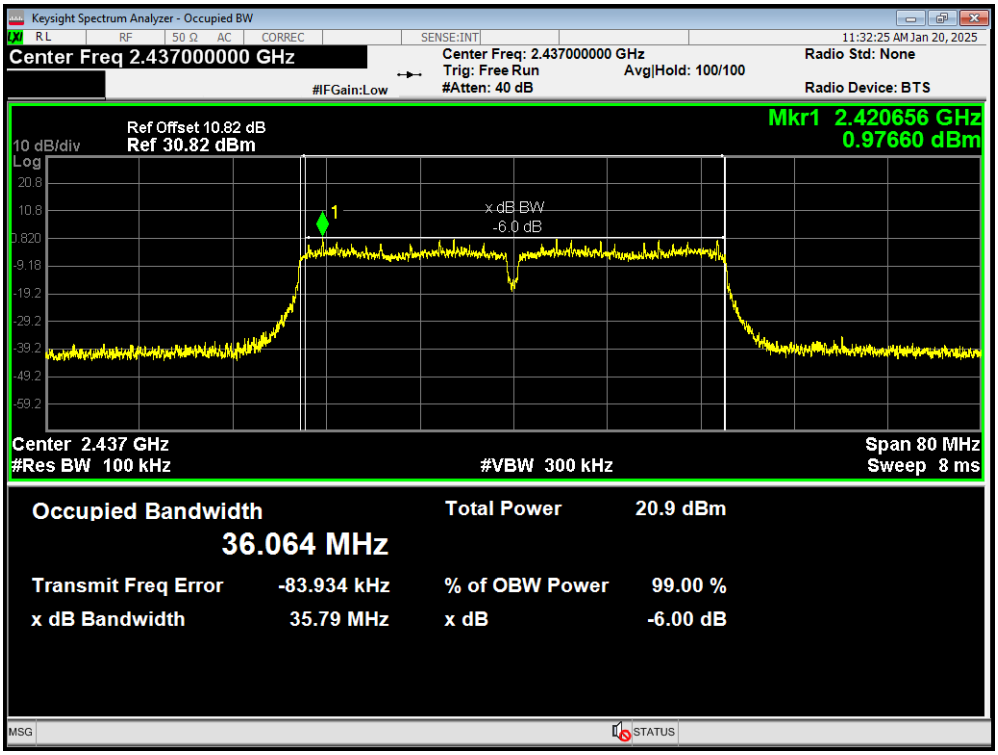
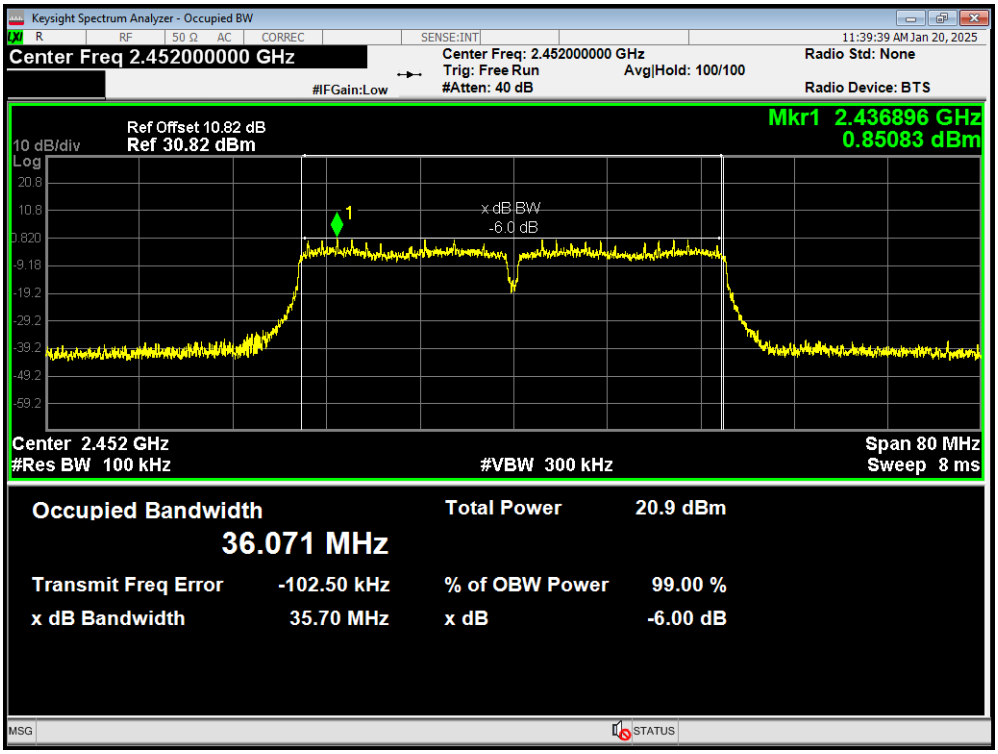
-6dB Bandwidth 802.11n(HT40) 2437MHz



-6dB Bandwidth 802.11n(HT40) 2452MHz



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5.3. Band Edge

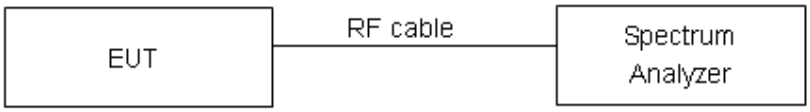
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “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.”

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

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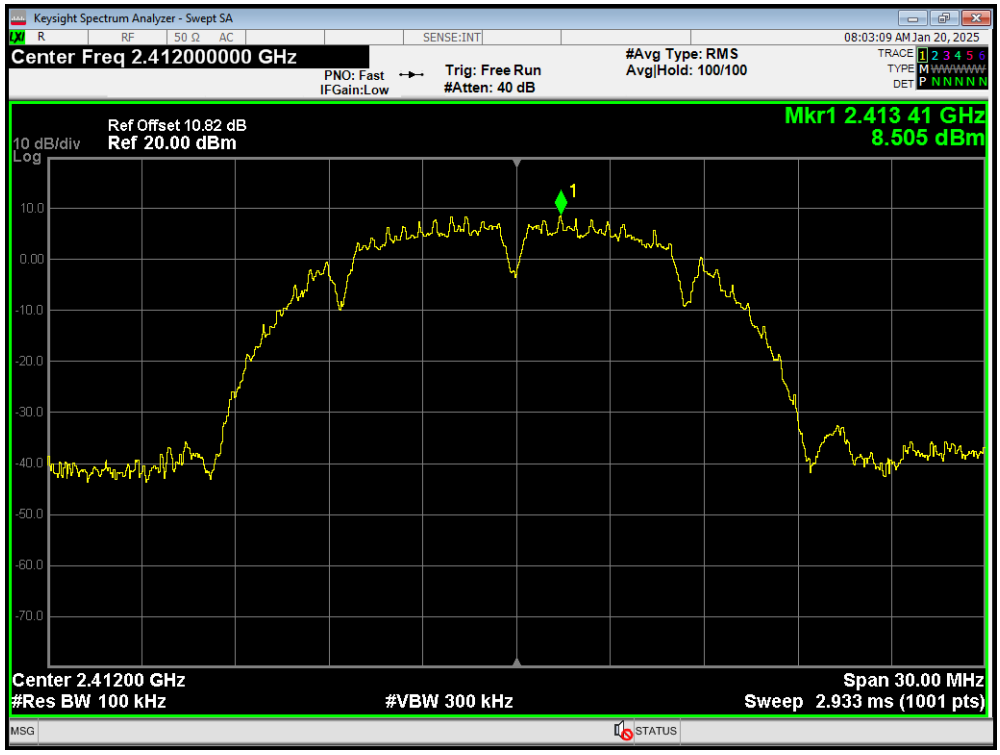
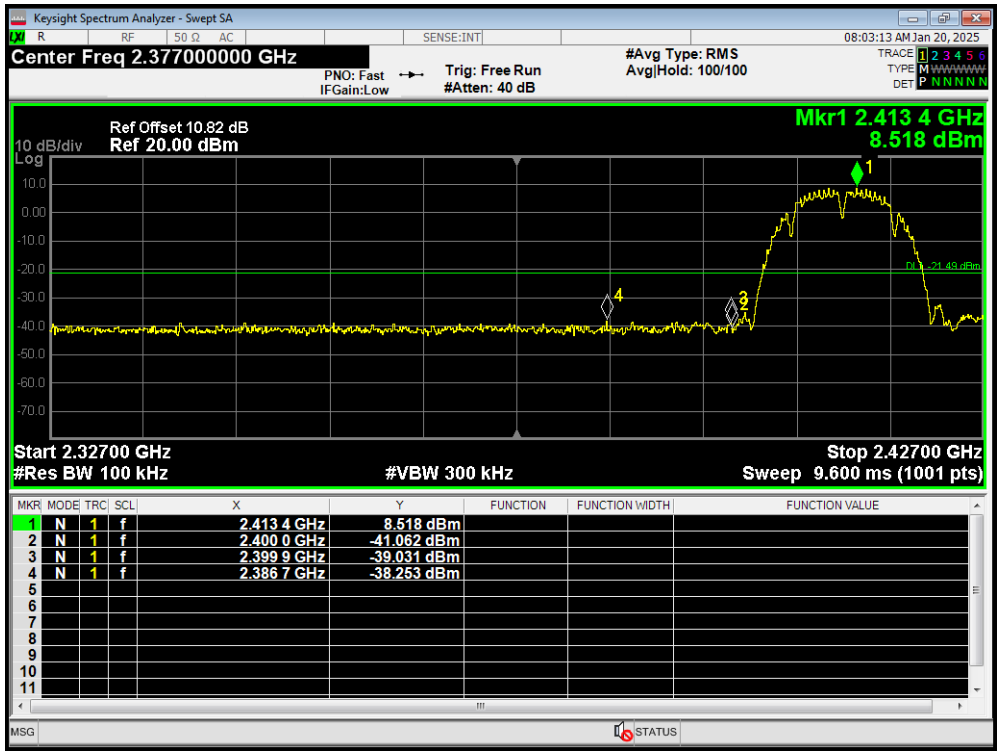
Test Results: PASS

Band Edge 802.11b 2412MHz Ref



Band Edge 802.11b 2412MHz Emission



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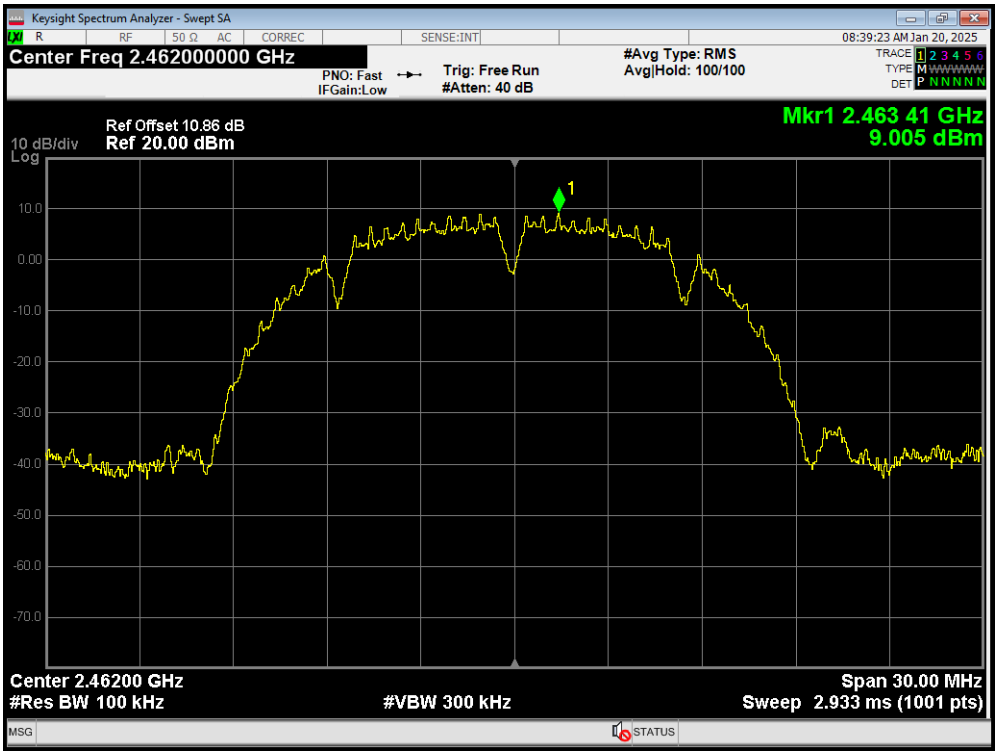
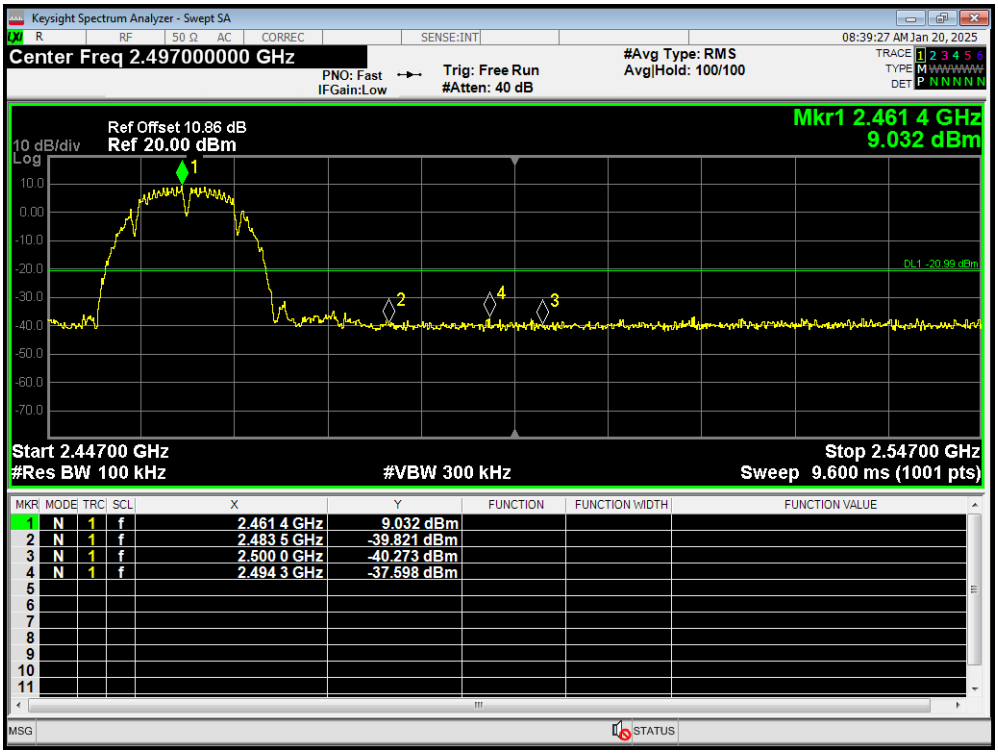
Band Edge 802.11b 2462MHz Ref



Band Edge 802.11b 2462MHz Emission



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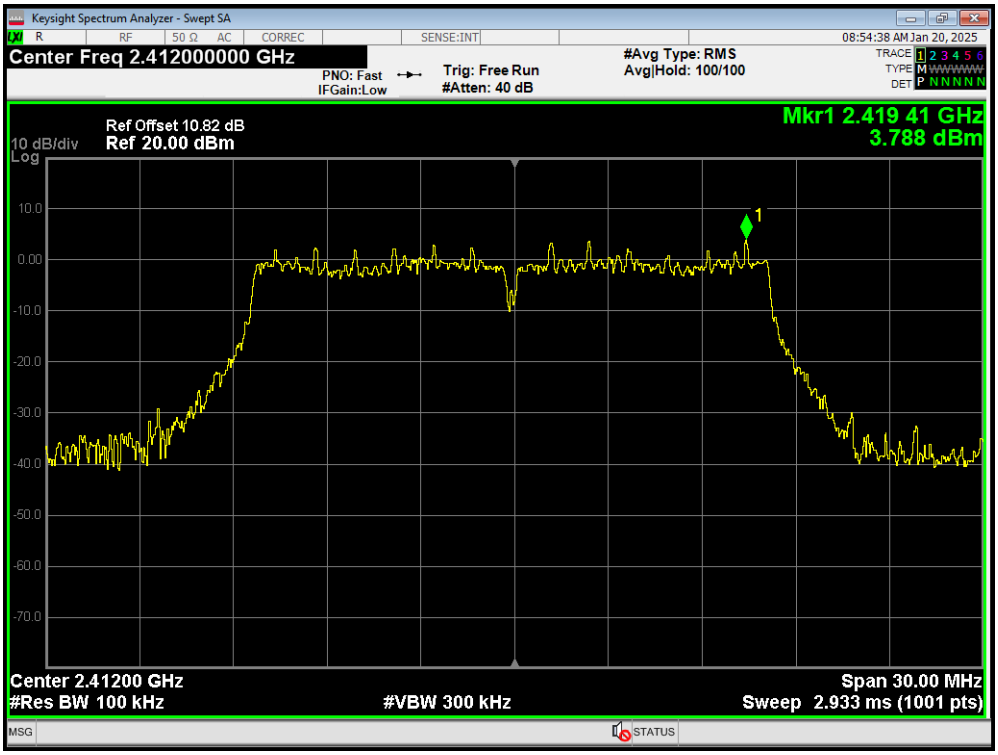
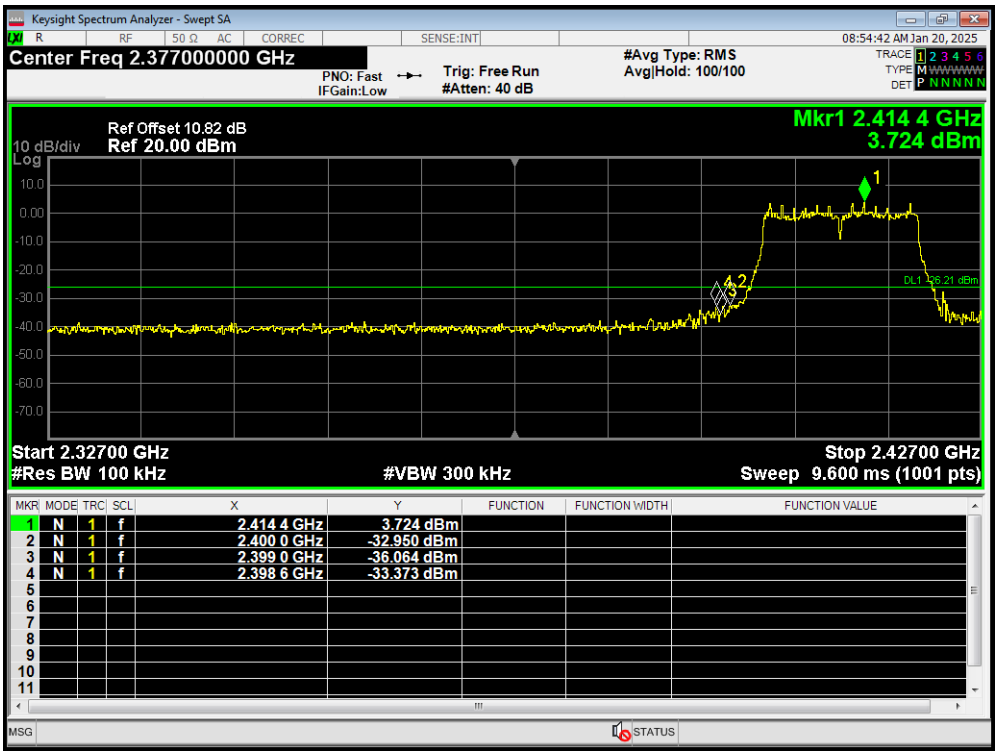
Band Edge 802.11g 2412MHz Ref



Band Edge 802.11g 2412MHz Emission



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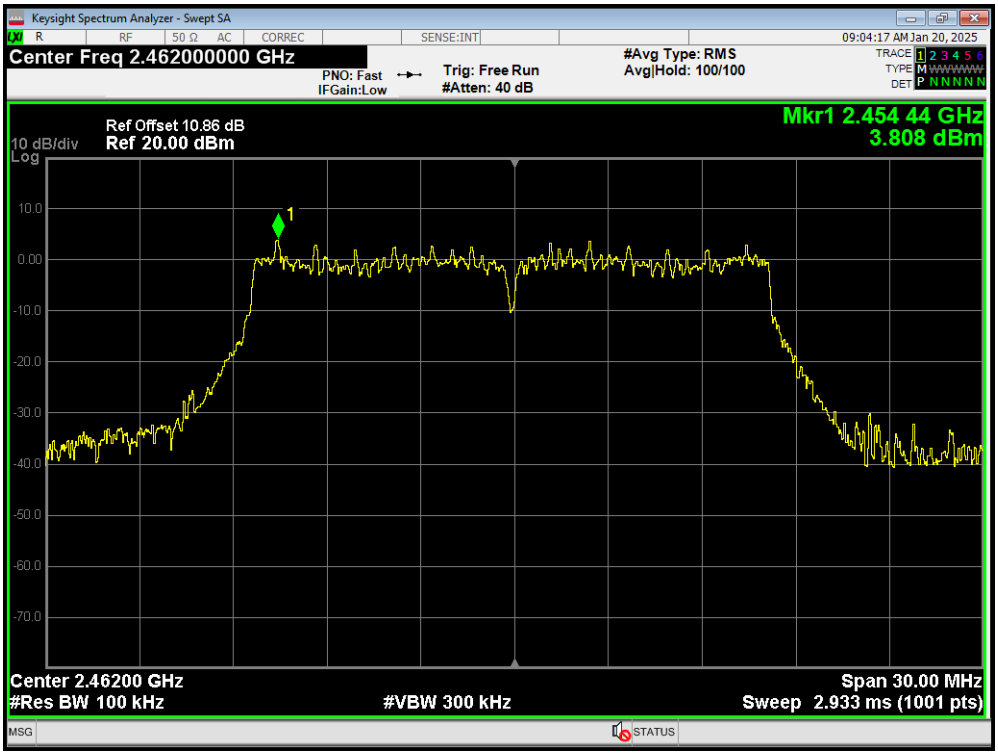
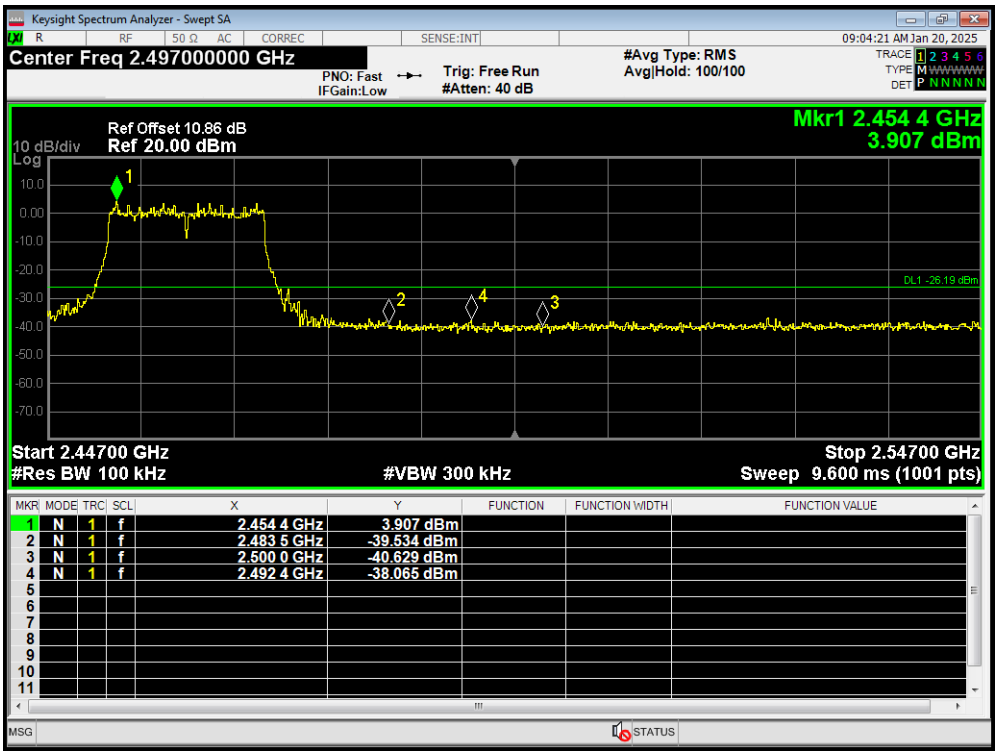
Band Edge 802.11g 2462MHz Ref



Band Edge 802.11g 2462MHz Emission



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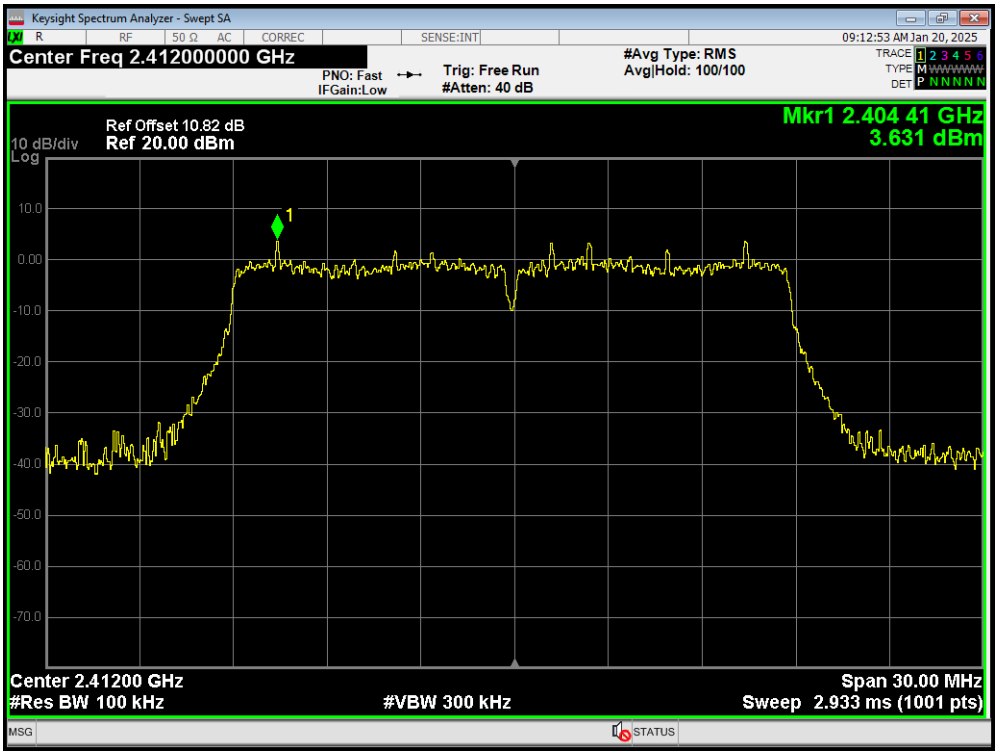
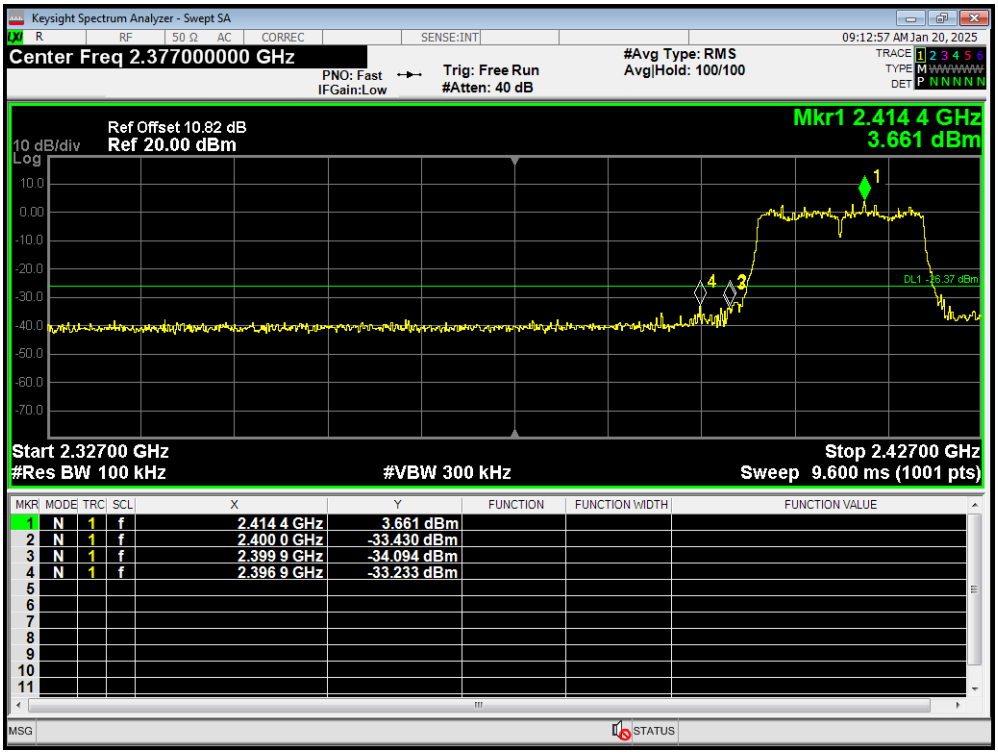
Band Edge 802.11n(HT20) 2412MHz Ref



Band Edge 802.11n(HT20) 2412MHz Emission



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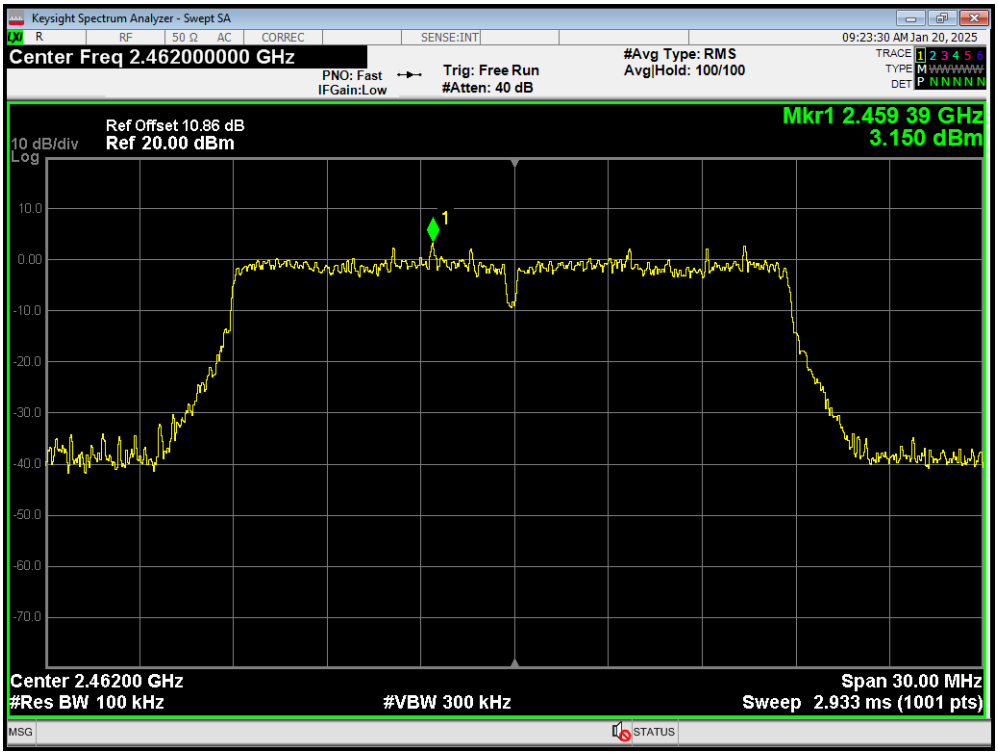
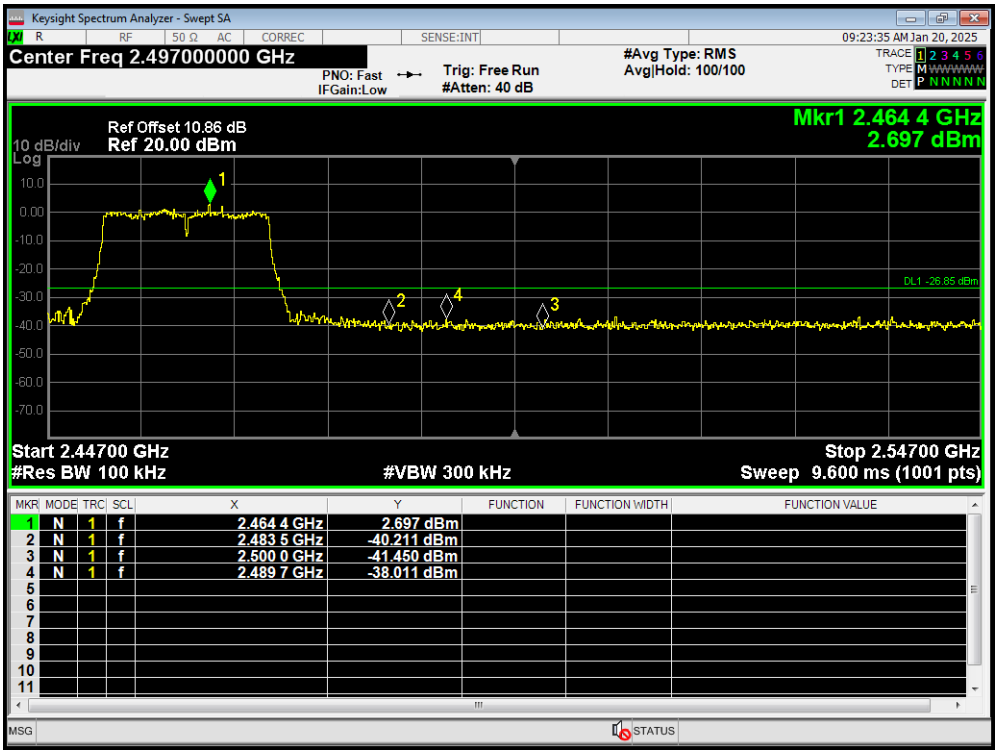
Band Edge 802.11n(HT20) 2462MHz Ref



Band Edge 802.11n(HT20) 2462MHz Emission



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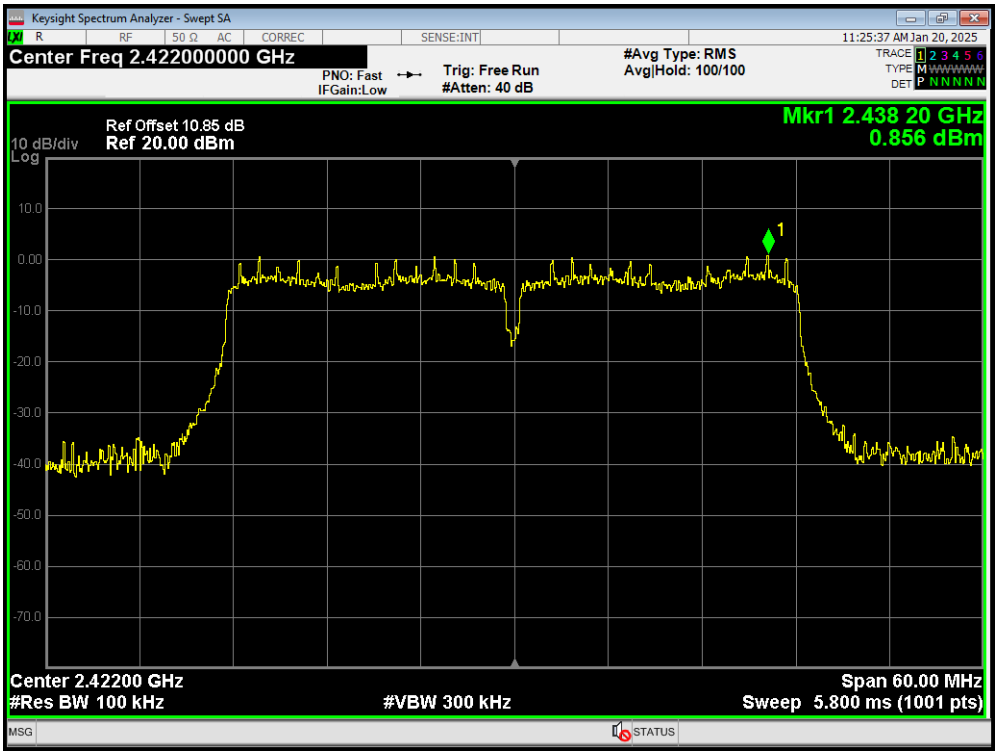
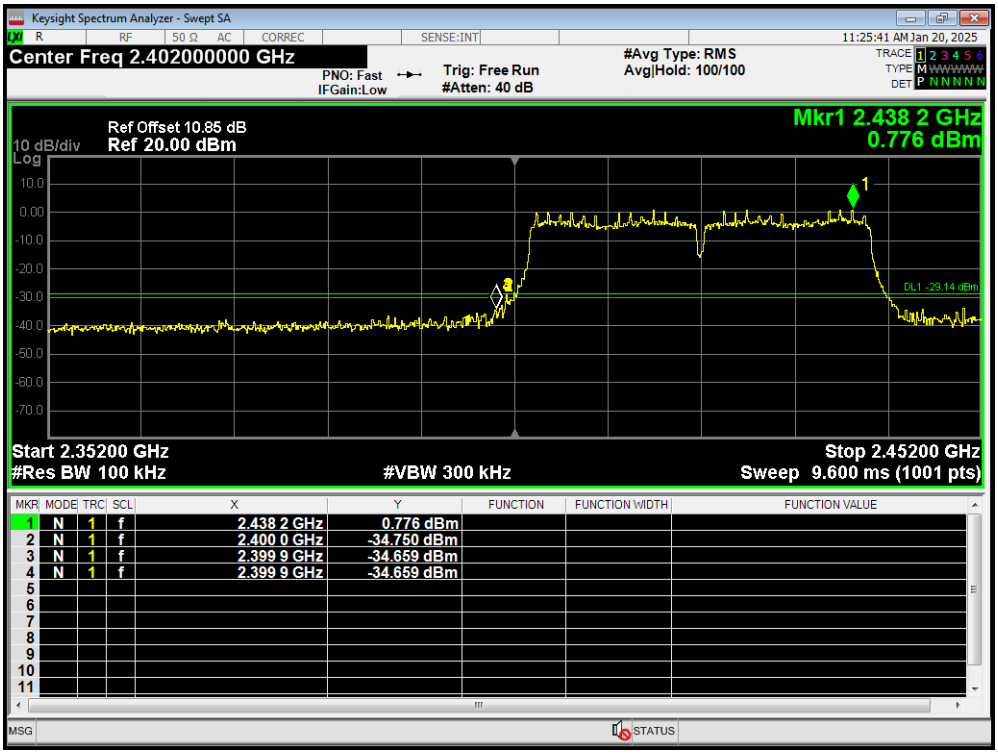
Band Edge 802.11n(HT40) 2422MHz Ref



Band Edge 802.11n(HT40) 2422MHz Emission



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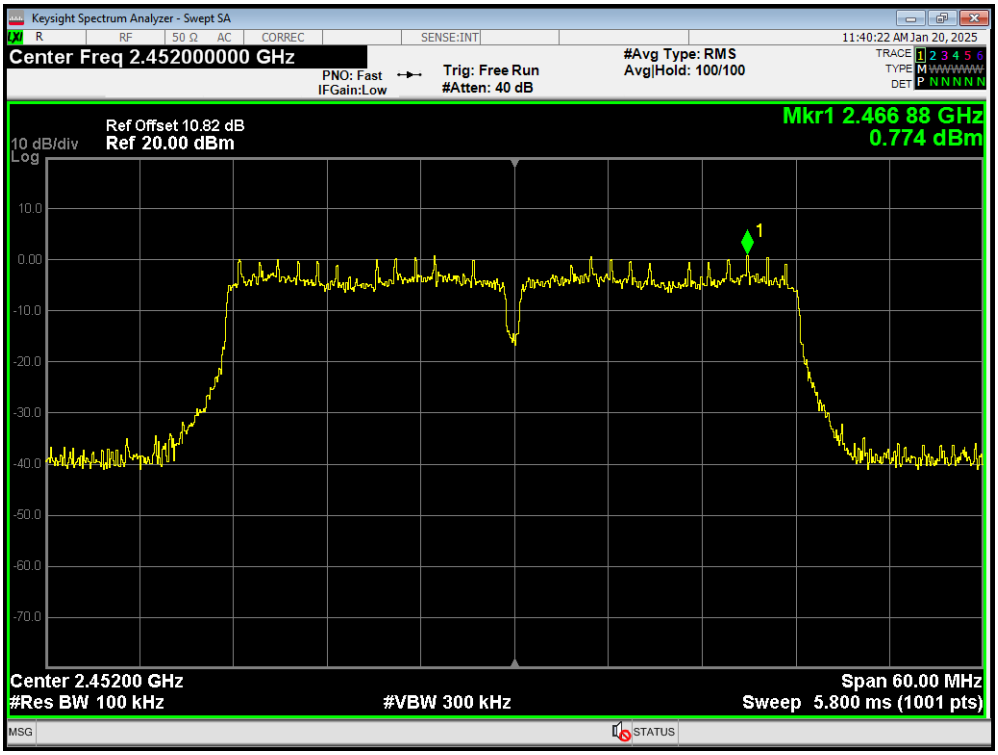
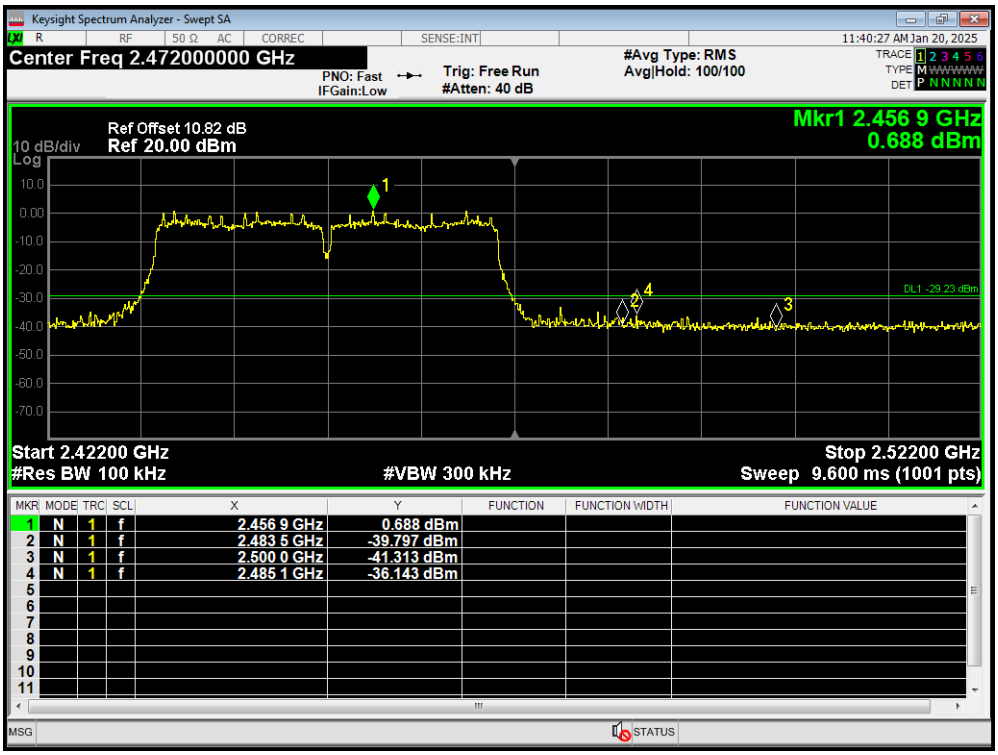
Band Edge 802.11n(HT40) 2452MHz Ref



Band Edge 802.11n(HT40) 2452MHz Emission



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5.4. Power Spectral Density

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation.

Method AVGPSD-1 was used for this test.

a) Set instrument center frequency to DTS channel center frequency

b) Set span to at least 1.5 times the OBW

c) Set RBW to:3kHz≤RBW≤100kHz

d) Set VBW≥[3x RBW]

e) Detector=power averaging (rms) or sample detector (when rms not available)

f) Ensure that the number of measurement points in the sweep ≥ [2 X span/RBW]

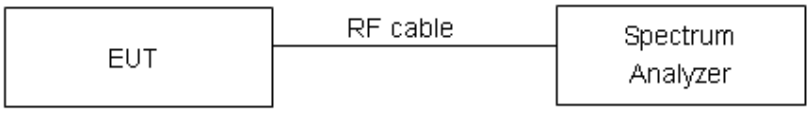
g) Sweep time auto couple

h) Employ trace averaging (rms) mode over a minimum of 100 traces

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

j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Test setup



Limits

Rule Part 15.247(e) specifies that" 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. ''

Limits	≤ 8 dBm / 3kHz

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.

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Test Results:

Test Mode	Carrier frequency (MHz) / Channel	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	2412/CH 1	-3.80	-13.80	8	PASS
	2437/CH 6	-3.85	-13.85	8	PASS
	2462/CH11	-3.24	-13.24	8	PASS
802.11g	2412/CH 1	-8.42	-18.42	8	PASS
	2437/CH 6	-9.22	-19.22	8	PASS
	2462/CH11	-8.69	-18.69	8	PASS
802.11n HT20	2412/CH 1	-9.64	-19.64	8	PASS
	2437/CH 6	-9.49	-19.49	8	PASS
	2462/CH11	-9.44	-19.44	8	PASS
802.11n HT40	2422/CH3	-12.38	-22.38	8	PASS
	2437/CH6	-11.86	-21.86	8	PASS
	2452/CH9	-12.39	-22.39	8	PASS
Note: Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*log10(3/30)					

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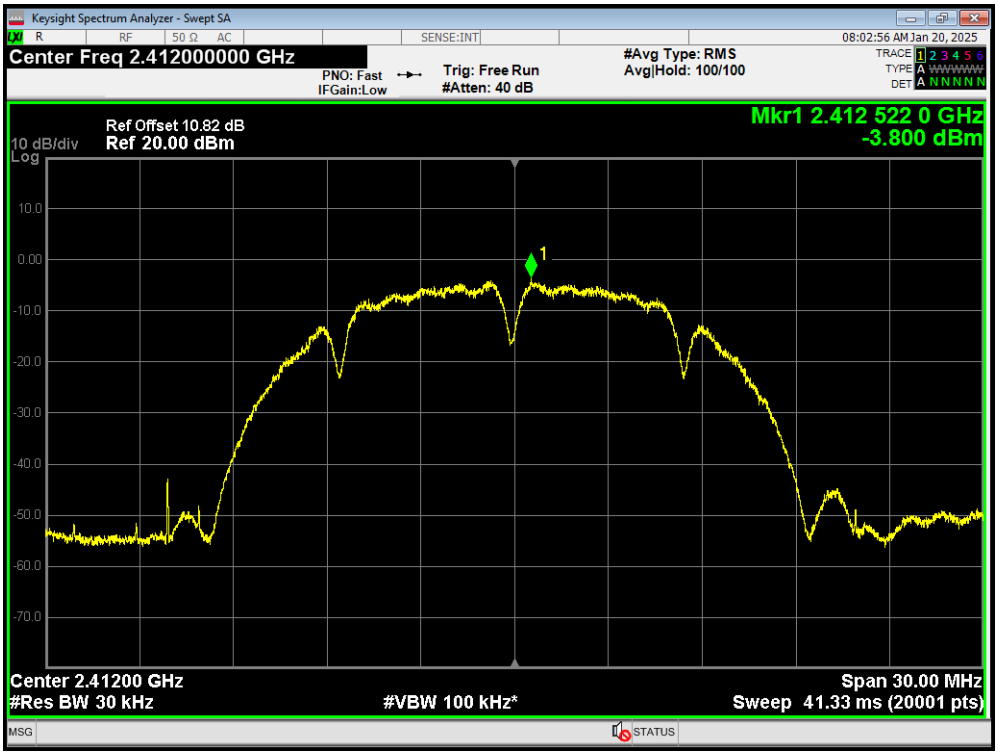
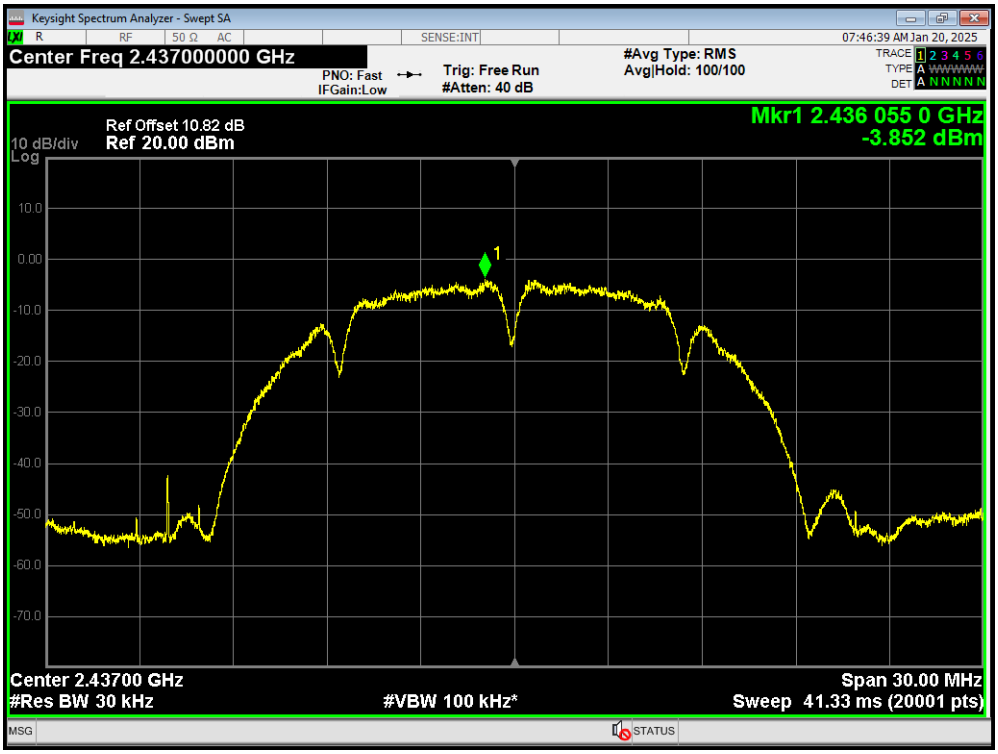
PSD 802.11b 2412MHz



PSD 802.11b 2437MHz



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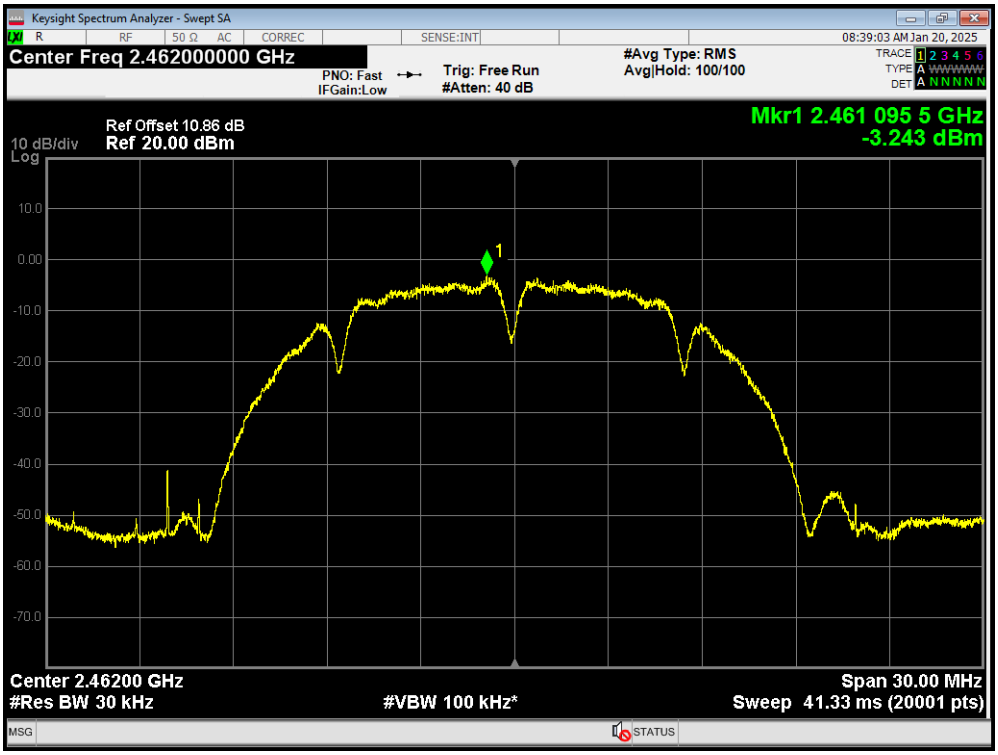
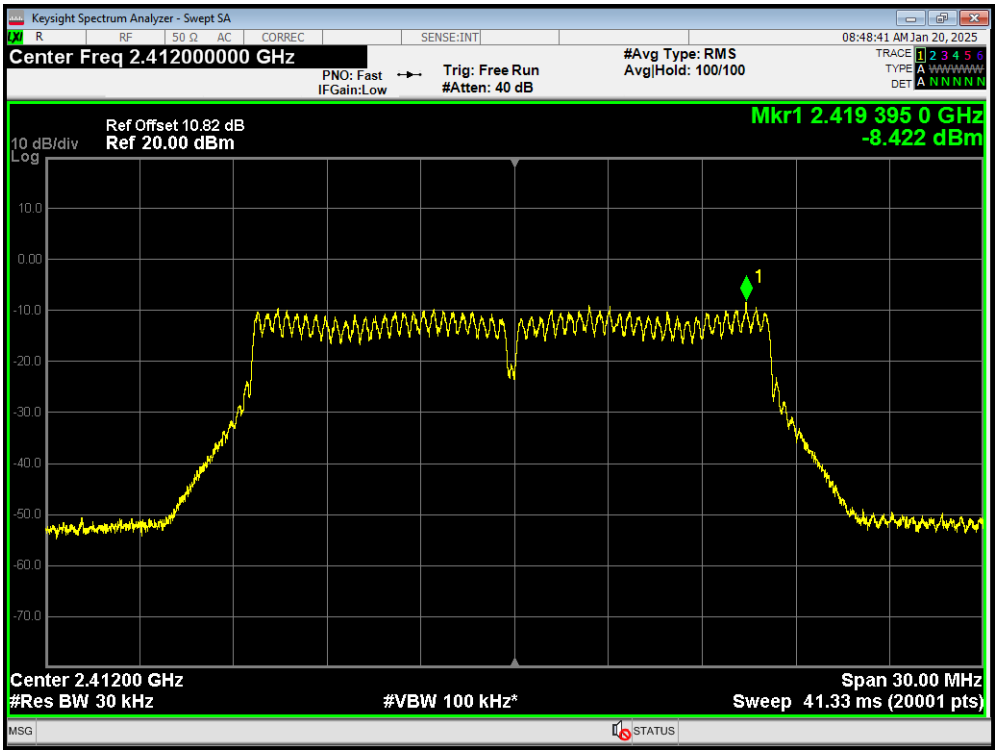
PSD 802.11b 2462MHz



PSD 802.11g 2412MHz



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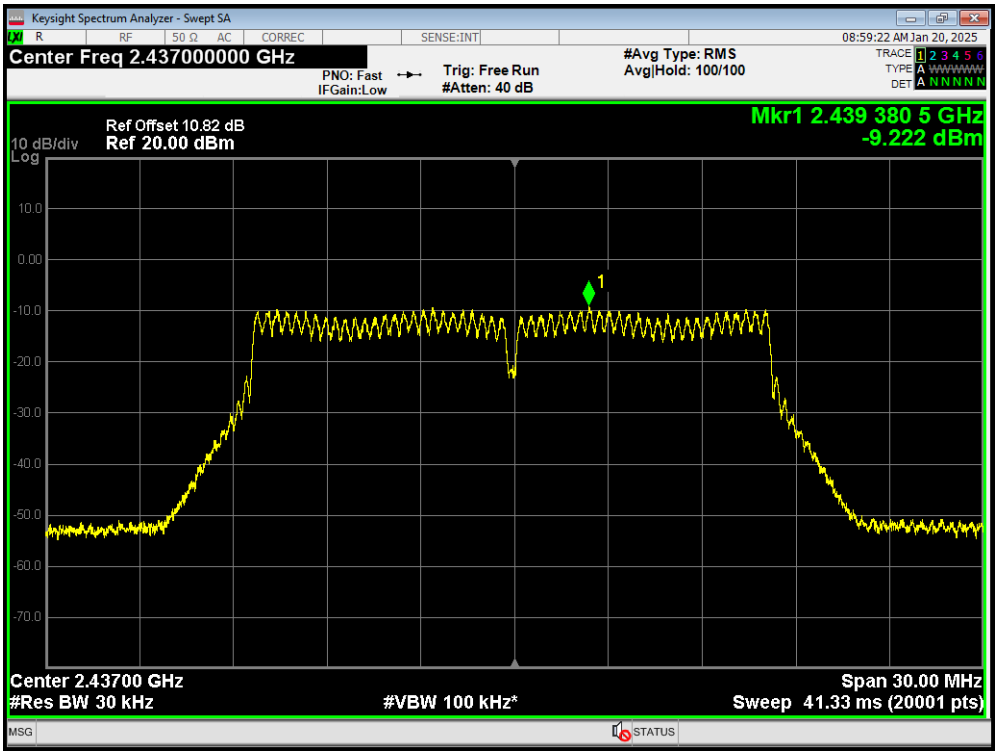
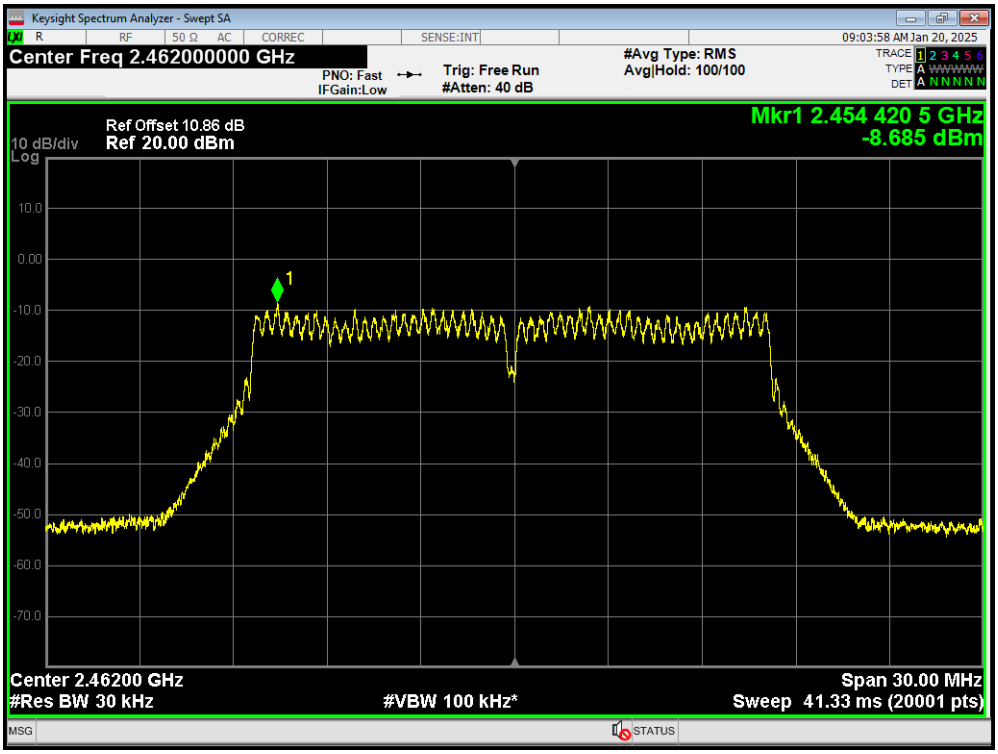
PSD 802.11g 2437MHz



PSD 802.11g 2462MHz



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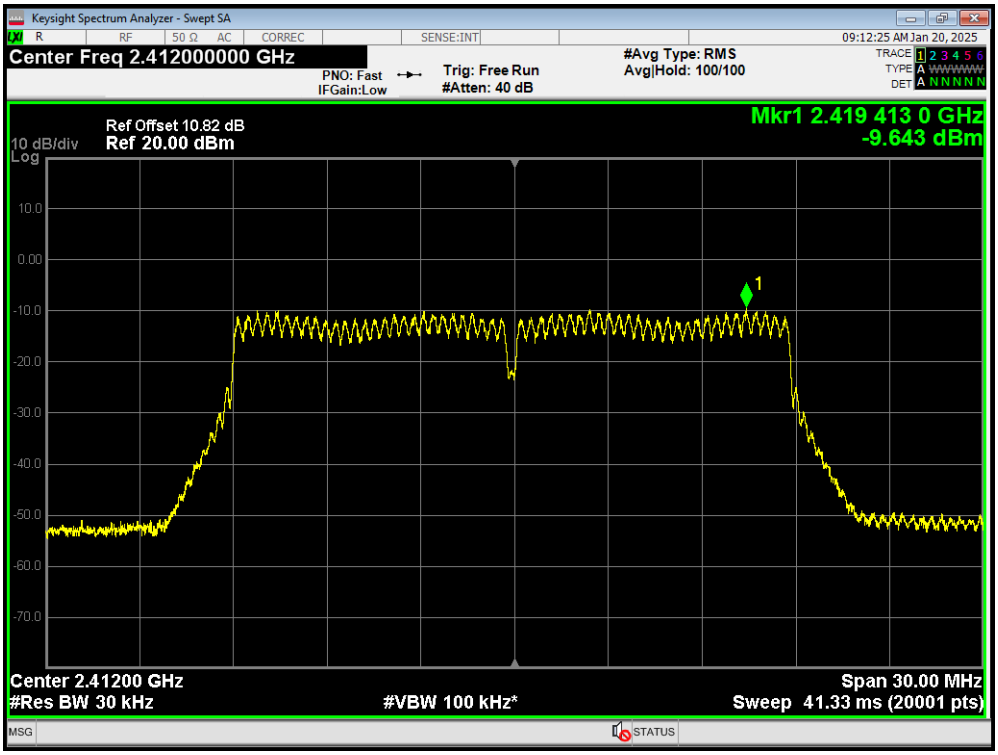
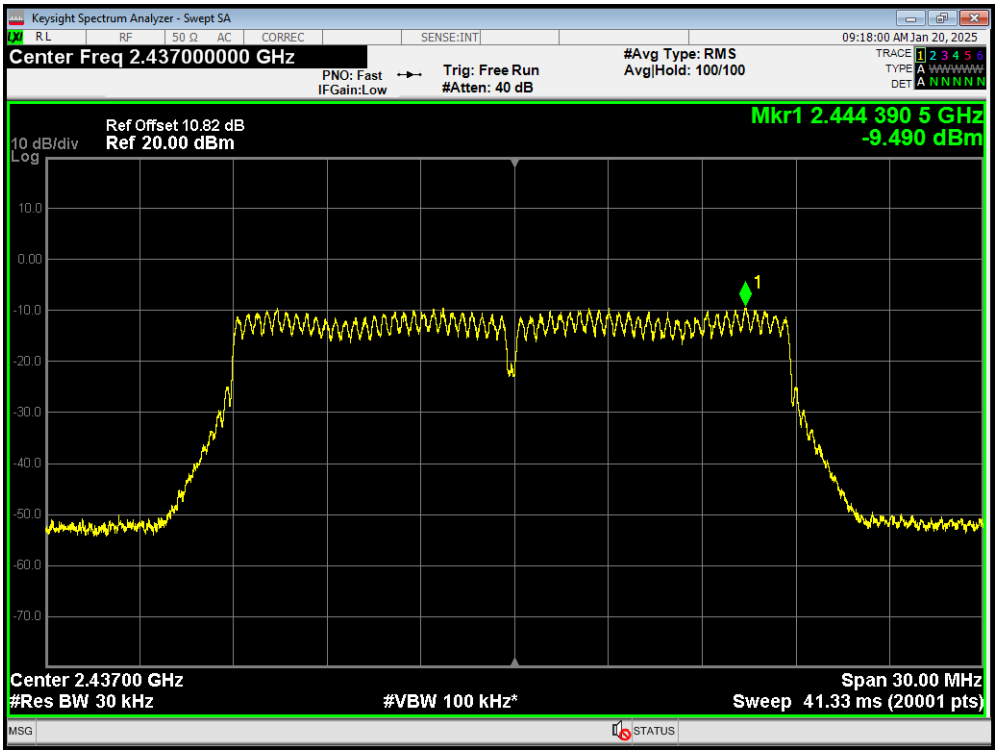
PSD 802.11n(HT20) 2412MHz



PSD 802.11n(HT20) 2437MHz



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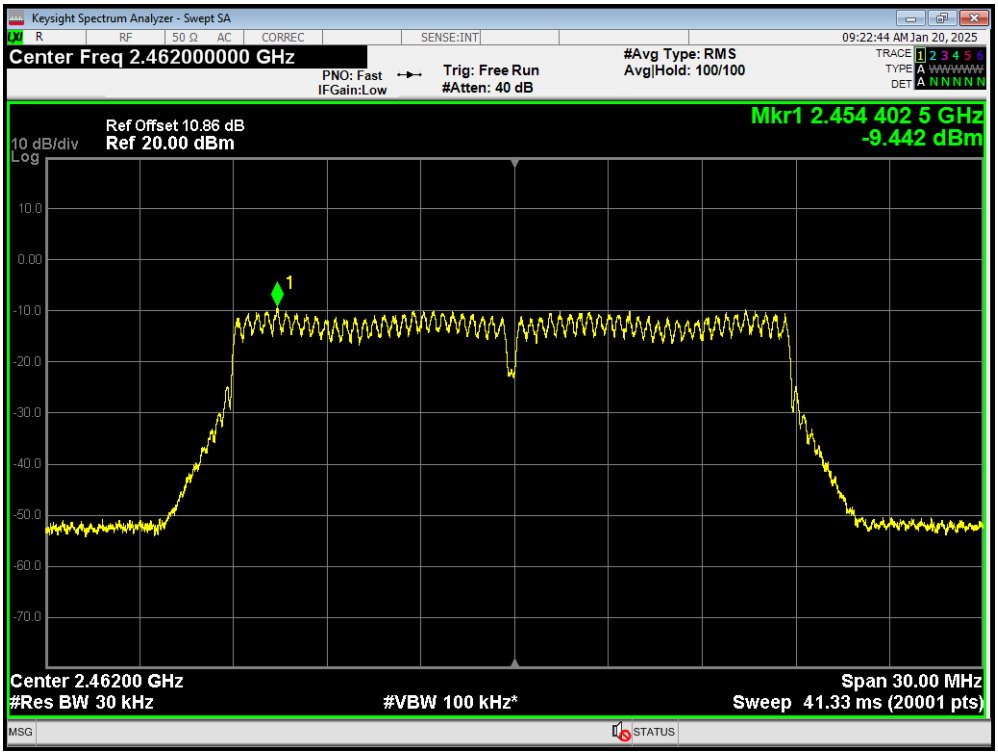
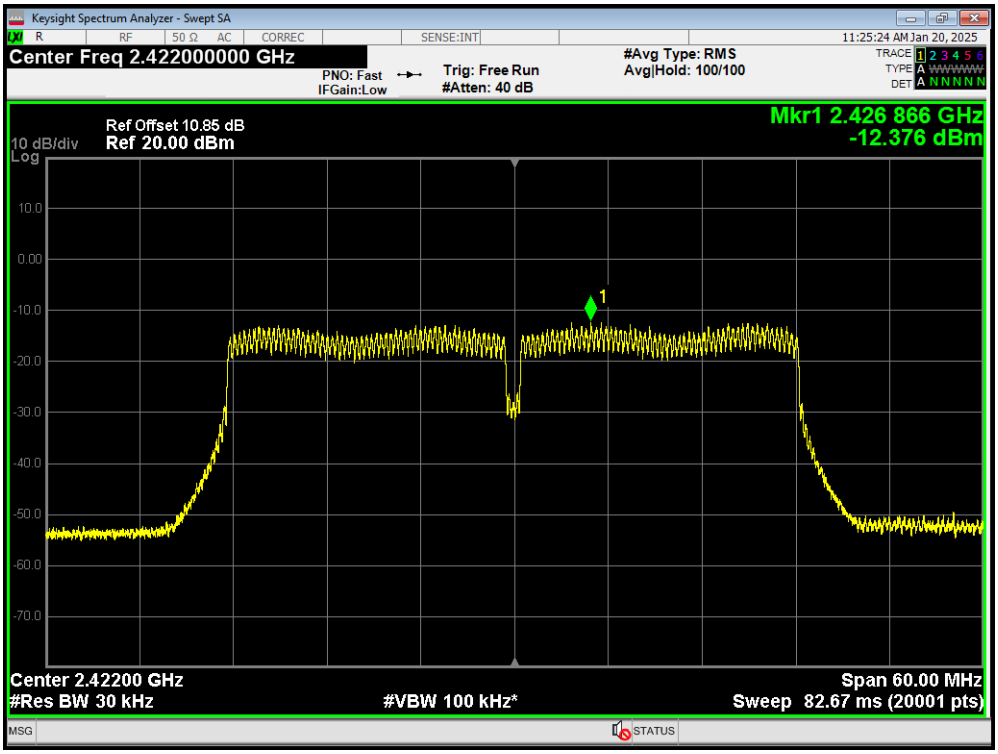
PSD 802.11n(HT20) 2462MHz



PSD 802.11n(HT40) 2422MHz



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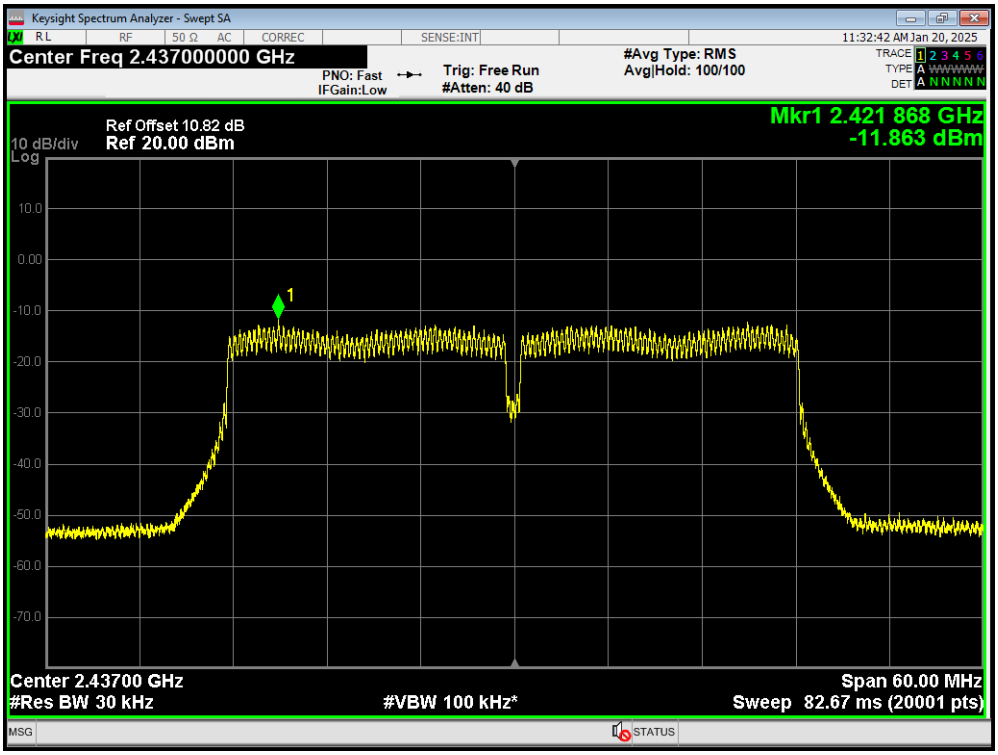
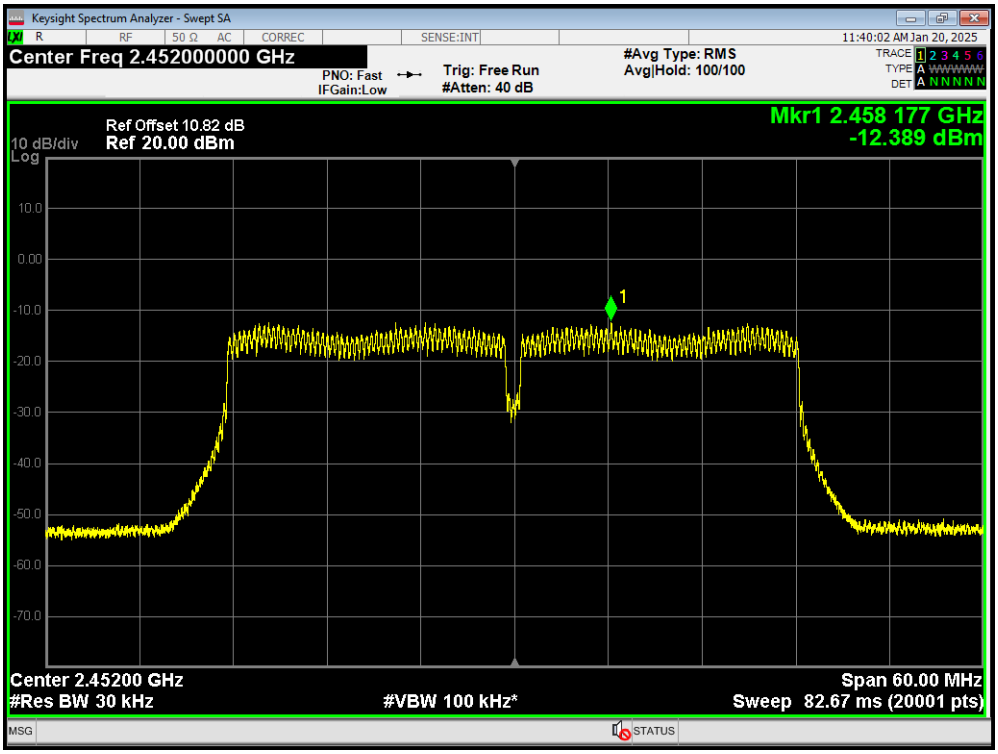
PSD 802.11n(HT40) 2437MHz



PSD 802.11n(HT40) 2452MHz



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5.5. Spurious RF Conducted Emissions

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.
The test is in transmitting mode.

Test Setup

Limits

Rule Part 15.247(d) pacifies that "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. "

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	9.090	-20.91
	2437	8.440	-21.56
	2462	9.110	-20.89
802.11g	2412	3.720	-26.28
	2437	3.200	-26.80
	2462	3.890	-26.11
802.11n HT20	2412	3.470	-26.53
	2437	3.120	-26.88
	2462	3.800	-26.2
802.11n HT40	2422	1.130	-28.87
	2437	1.040	-28.96
	2452	0.980	-29.02

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

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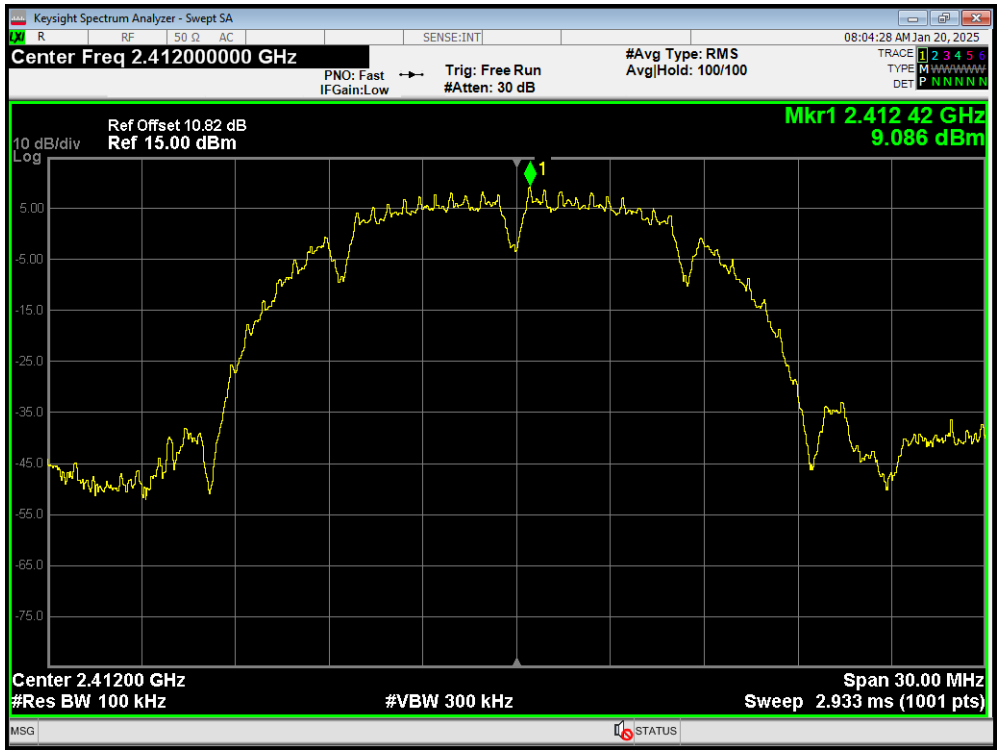
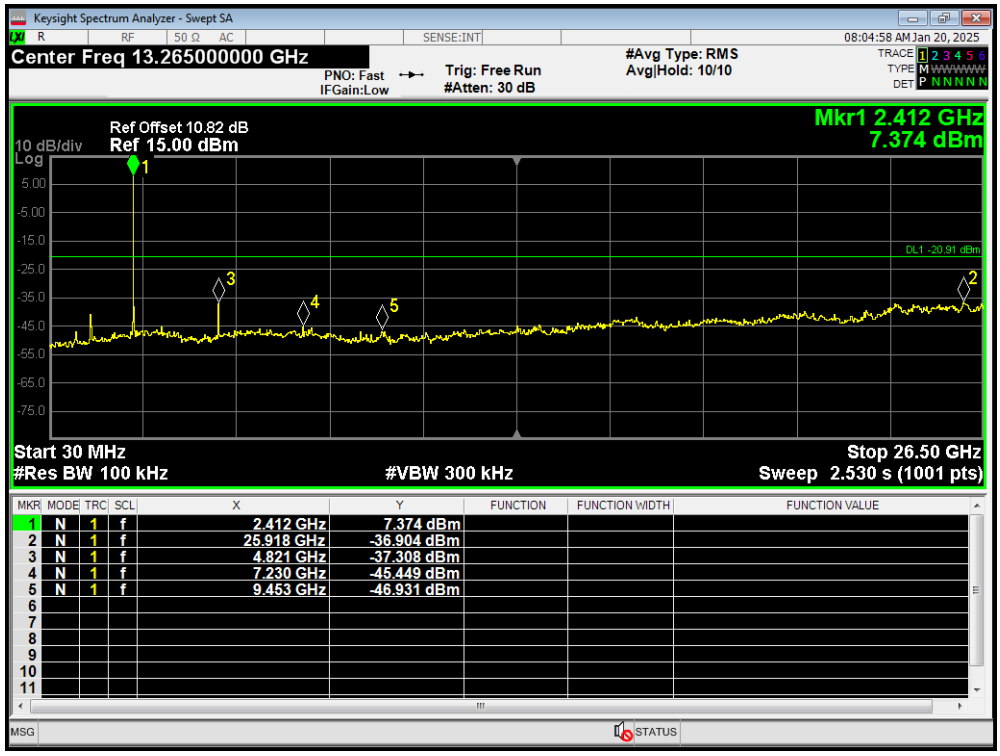
Test Results:

Tx. Spurious 802.11b 2412MHz Ref



Tx. Spurious 802.11b 2412MHz Emission



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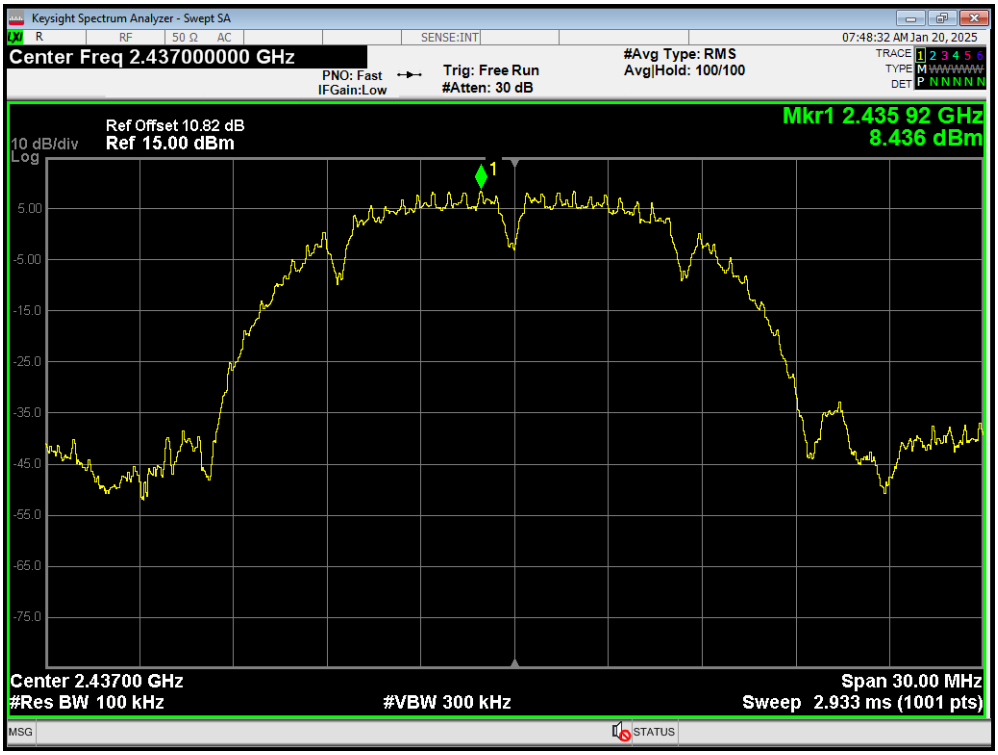
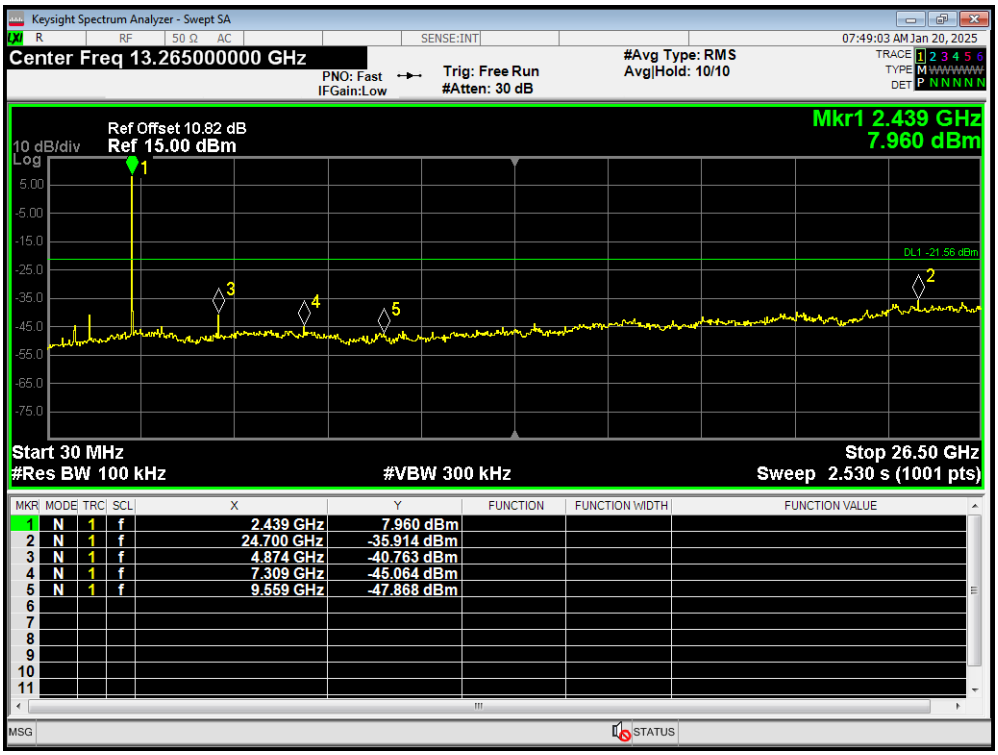
Tx. Spurious 802.11b 2437MHz Ref



Tx. Spurious 802.11b 2437MHz Emission



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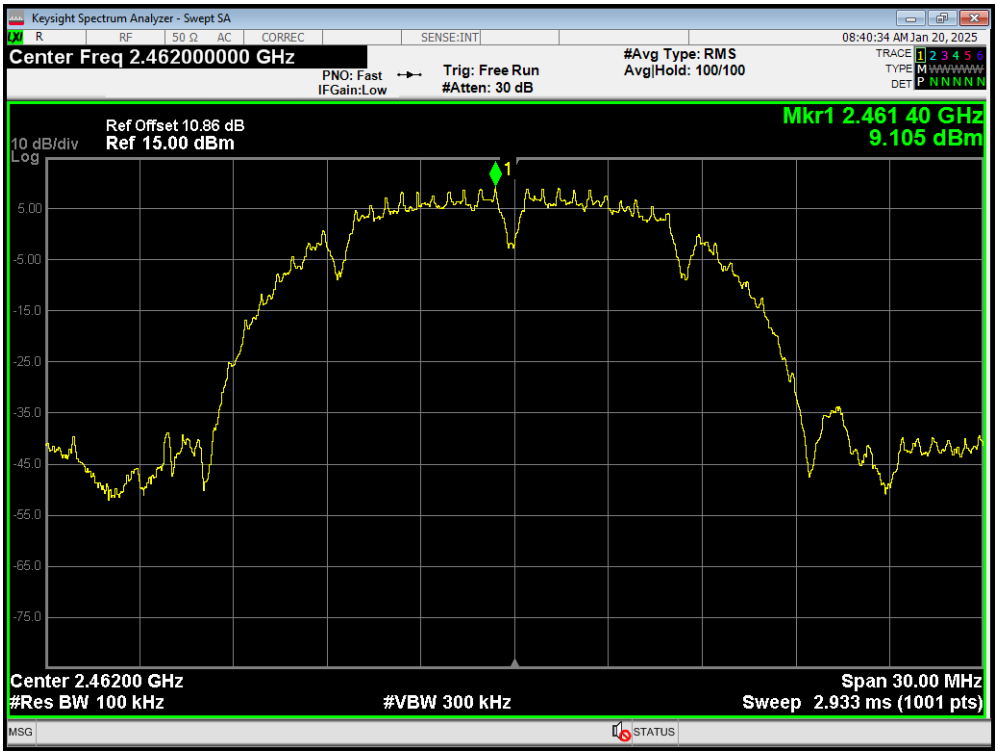
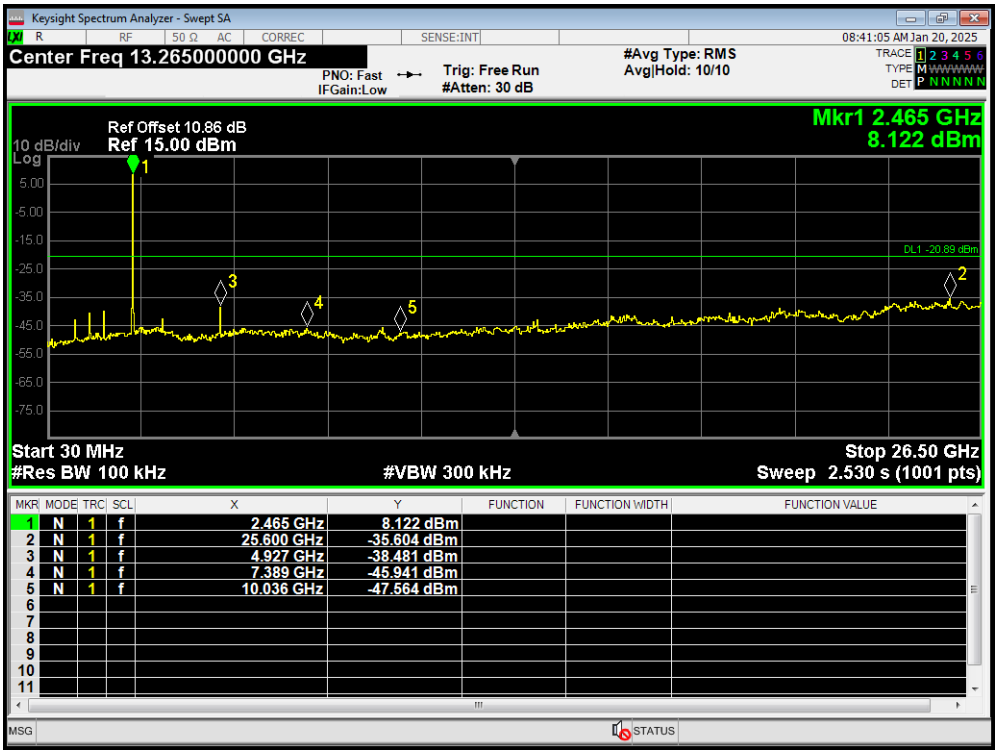
Tx. Spurious 802.11b 2462MHz Ref



Tx. Spurious 802.11b 2462MHz Emission



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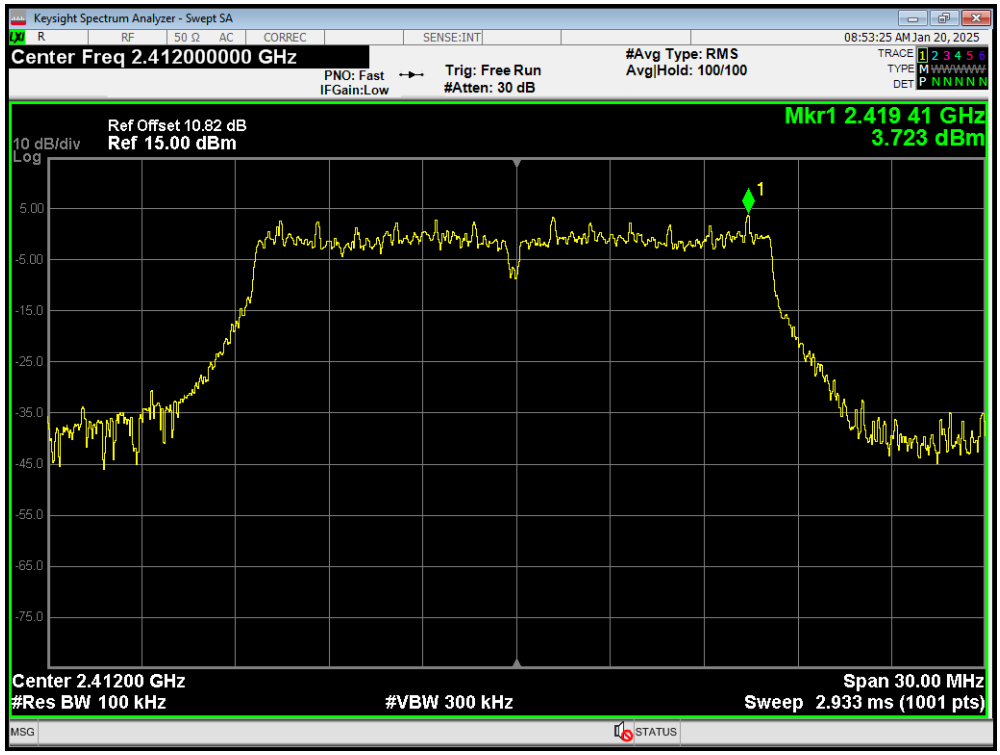
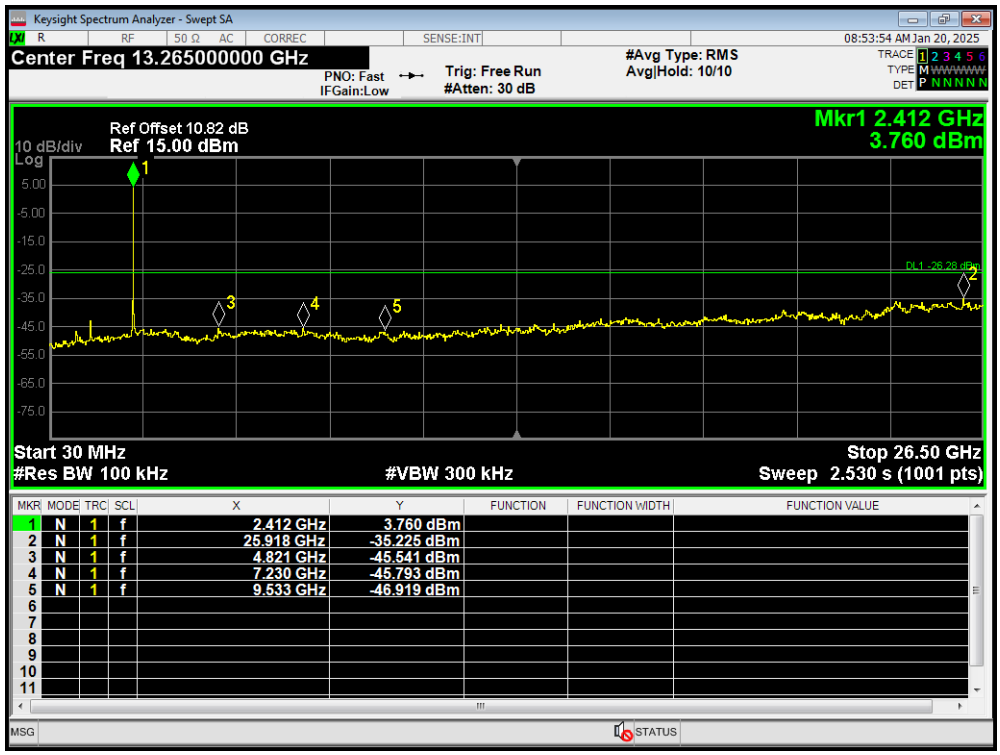
Tx. Spurious 802.11g 2412MHz Ref



Tx. Spurious 802.11g 2412MHz Emission



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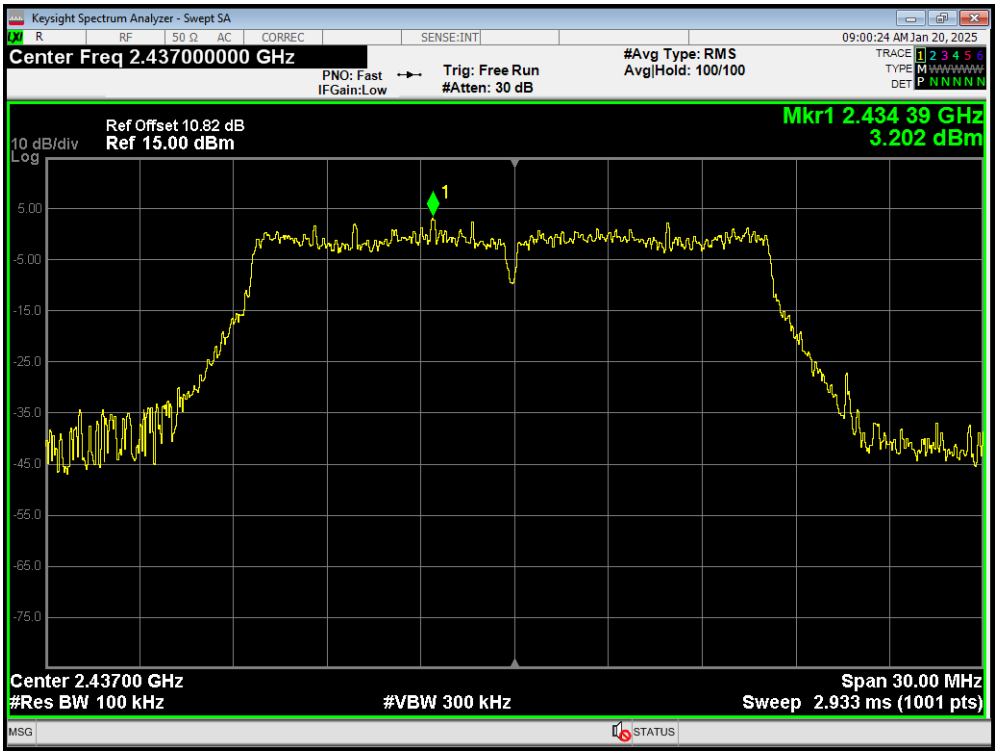
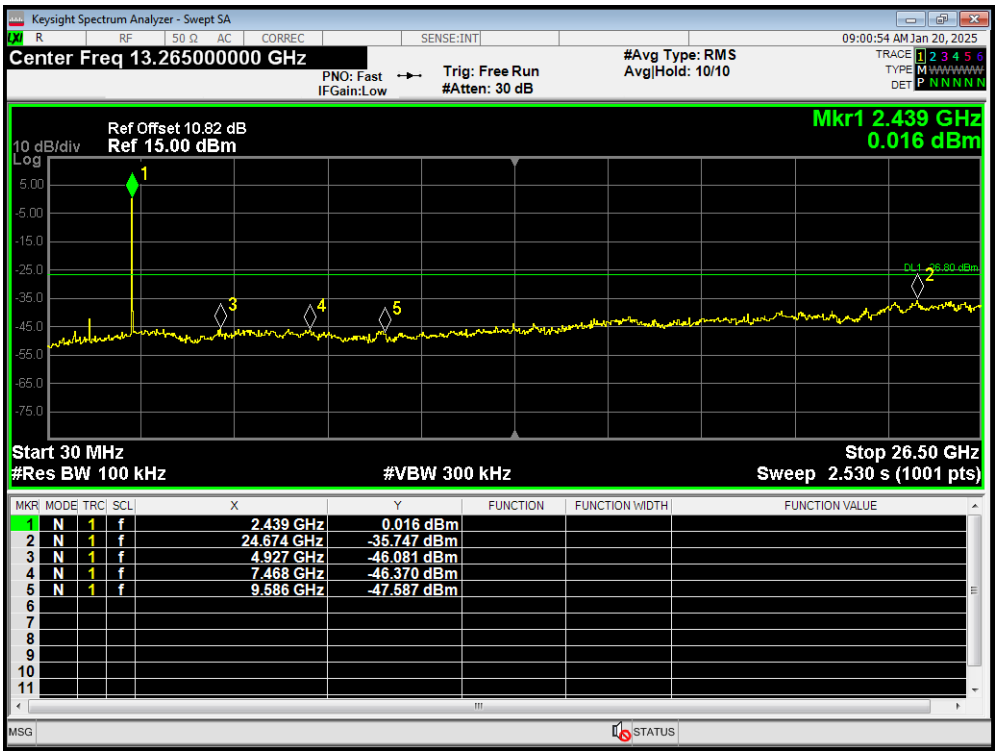
Tx. Spurious 802.11g 2437MHz Ref



Tx. Spurious 802.11g 2437MHz Emission



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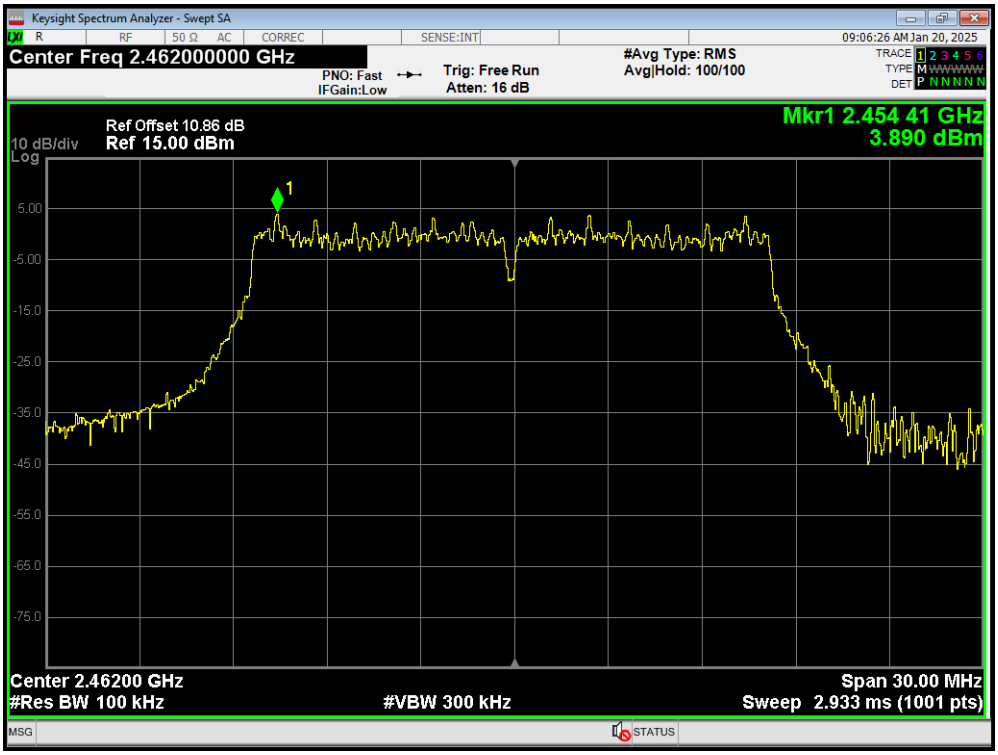
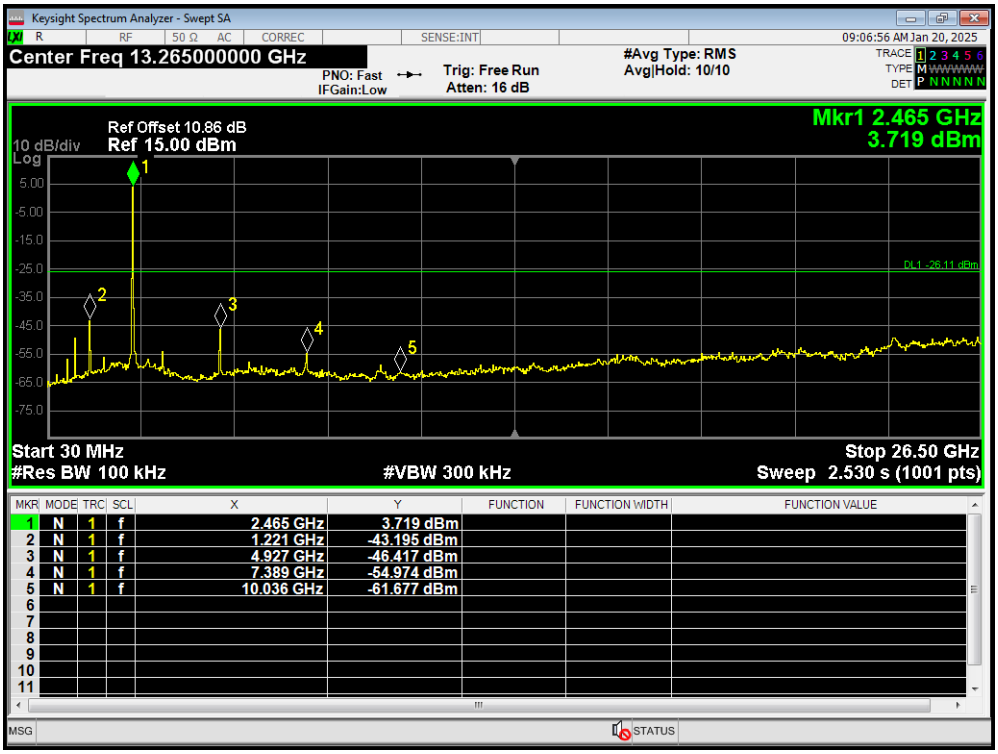
Tx. Spurious 802.11g 2462MHz Ref



Tx. Spurious 802.11g 2462MHz Emission



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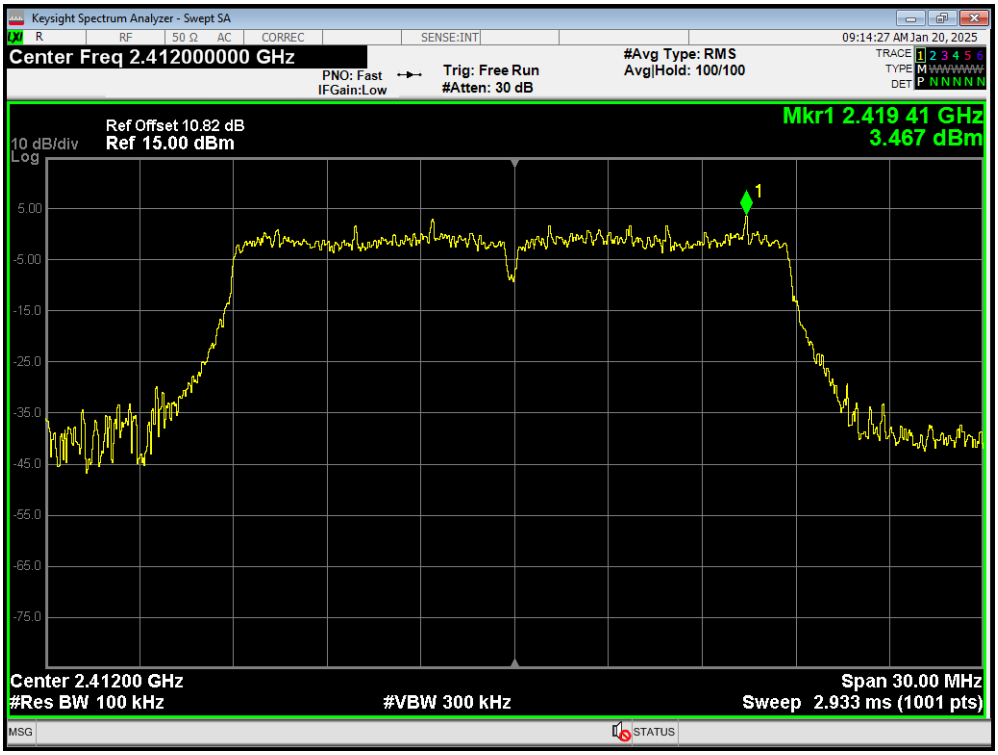
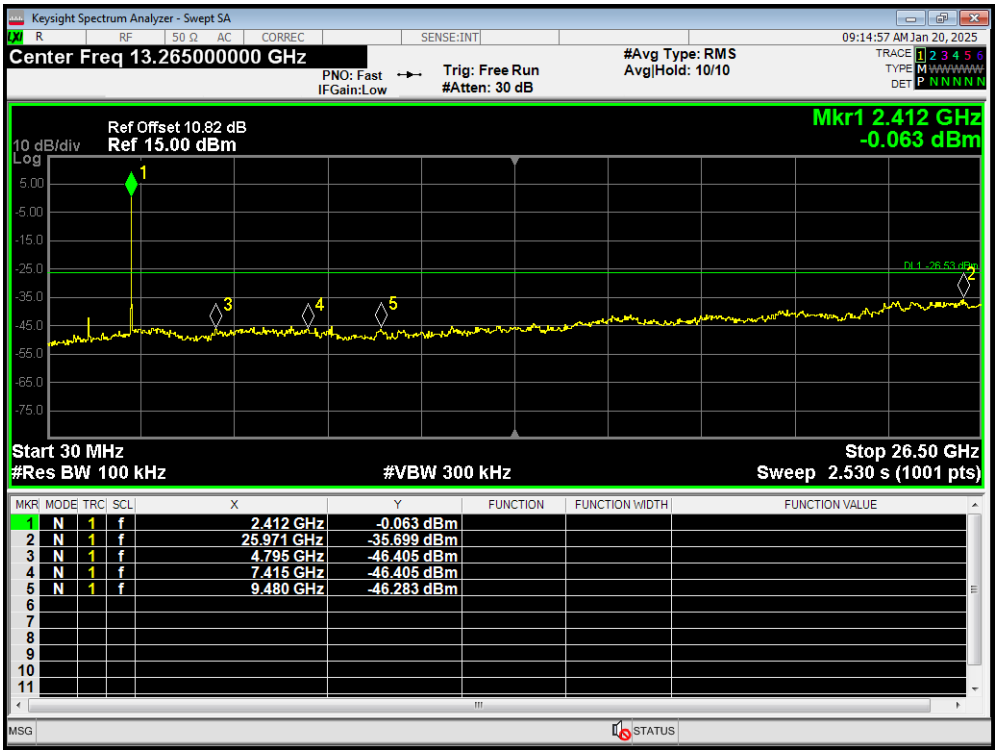
Tx. Spurious 802.11n(HT20) 2412MHz Ref



Tx. Spurious 802.11n(HT20) 2412MHz Emission



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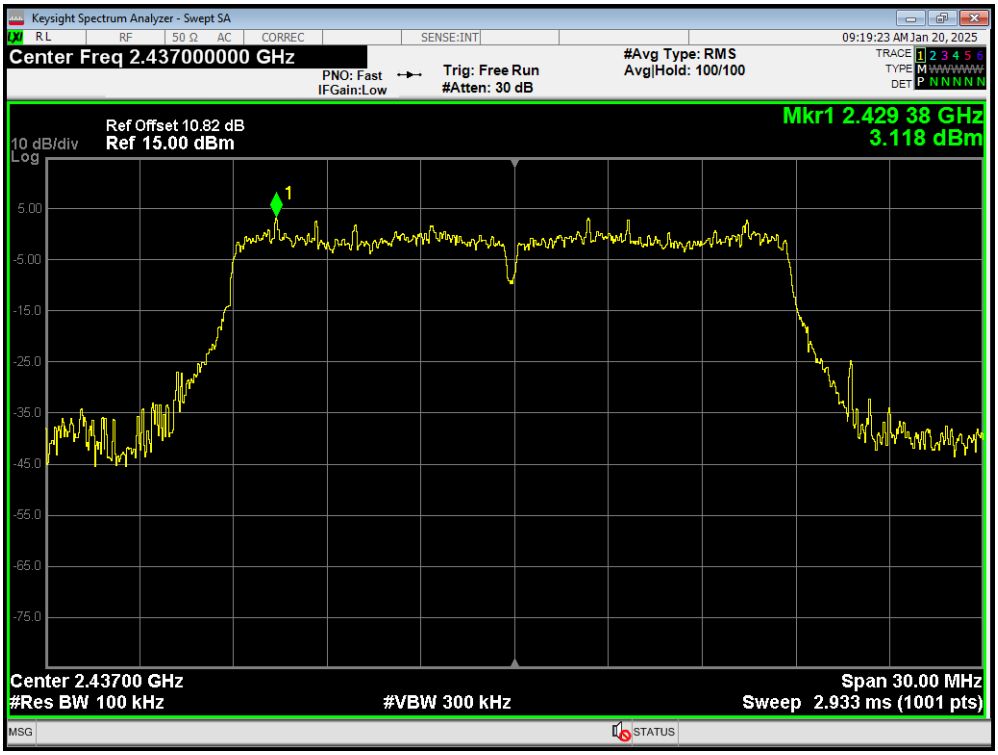
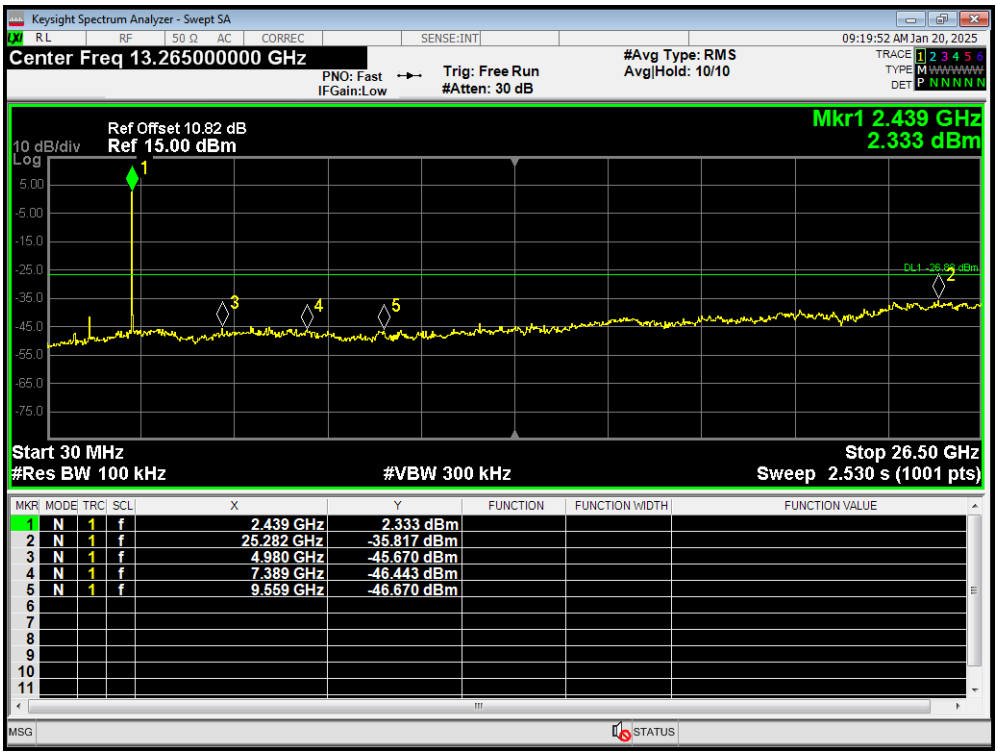
Tx. Spurious 802.11n(HT20) 2437MHz Ref



Tx. Spurious 802.11n(HT20) 2437MHz Emission



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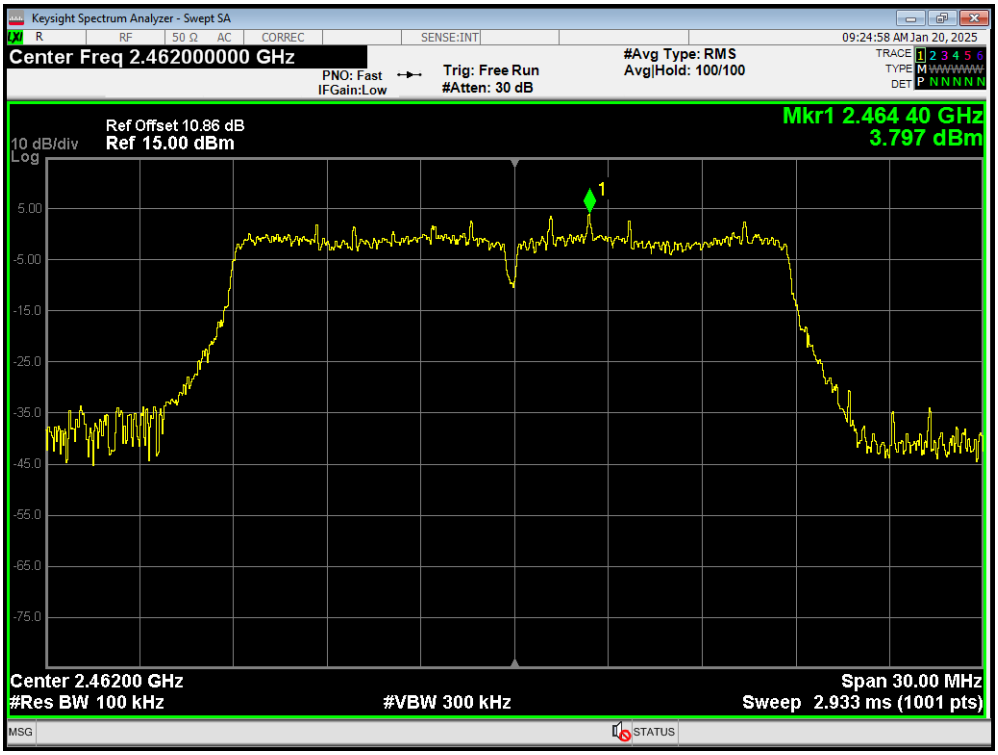
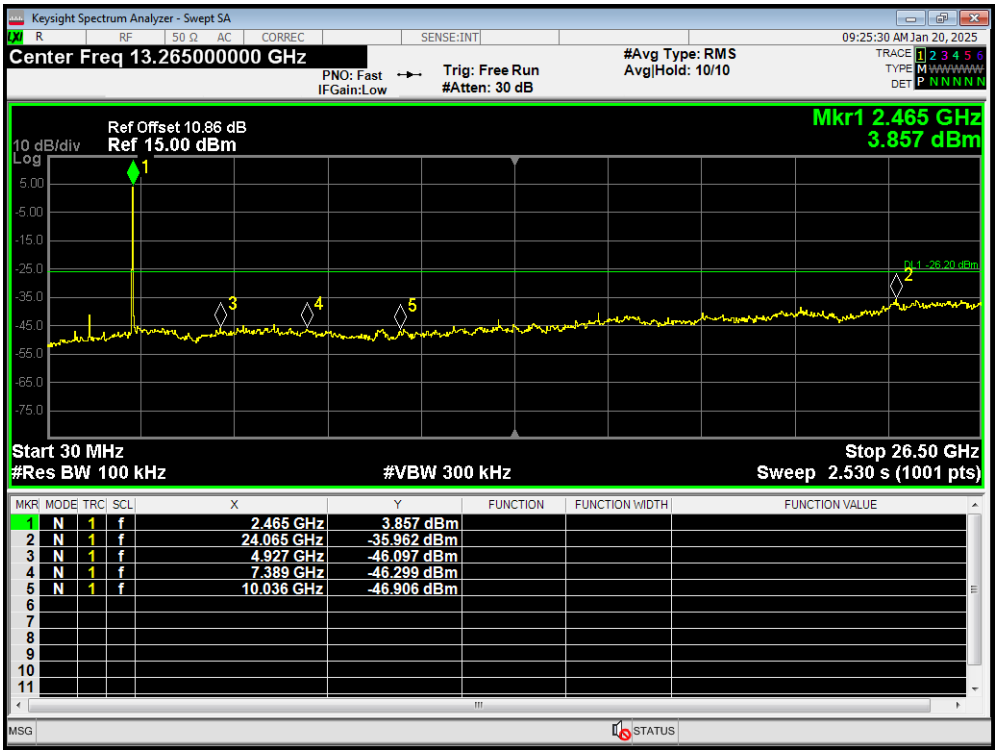
Tx. Spurious 802.11n(HT20) 2462MHz Ref



Tx. Spurious 802.11n(HT20) 2462MHz Emission



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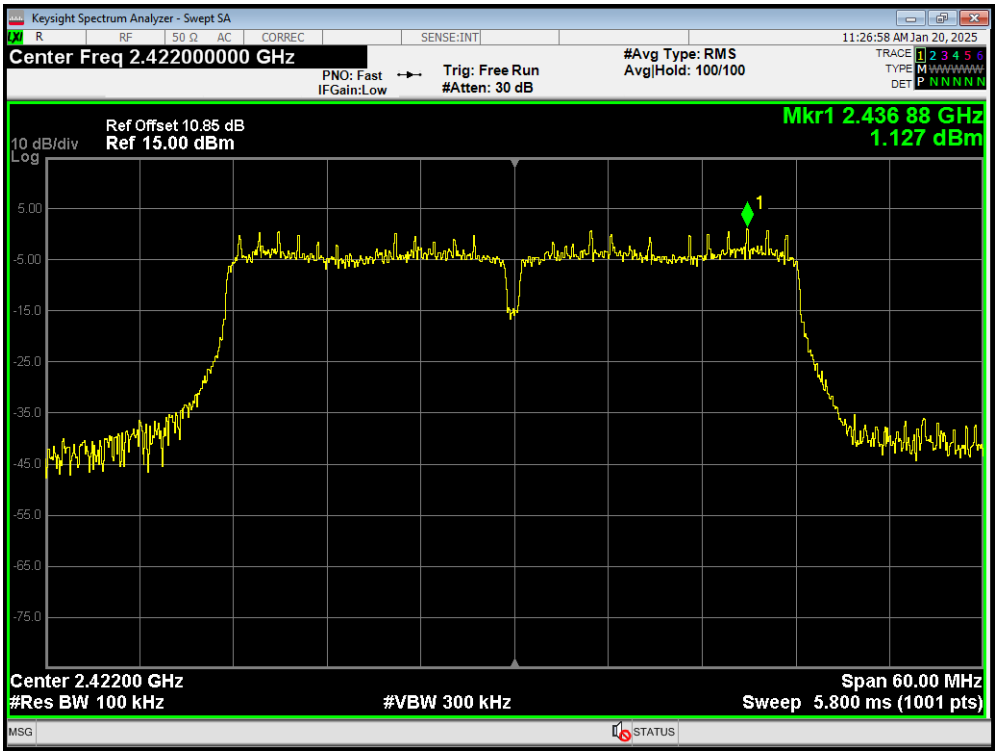
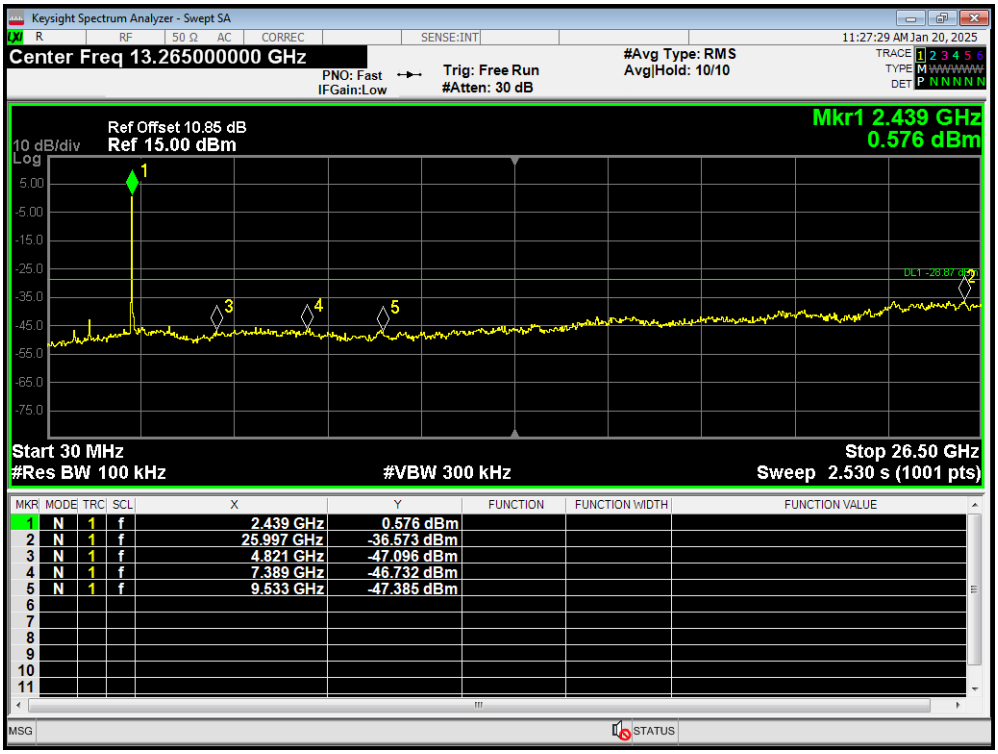
Tx. Spurious 802.11n(HT40) 2422MHz Ref



Tx. Spurious 802.11n(HT40) 2422MHz Emission



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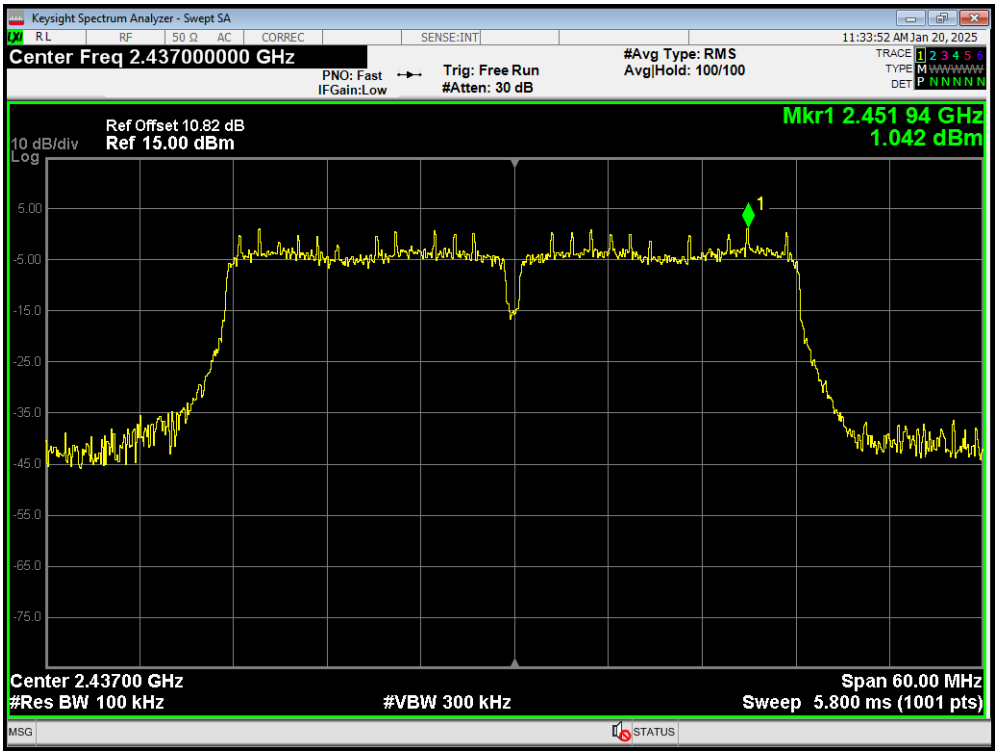
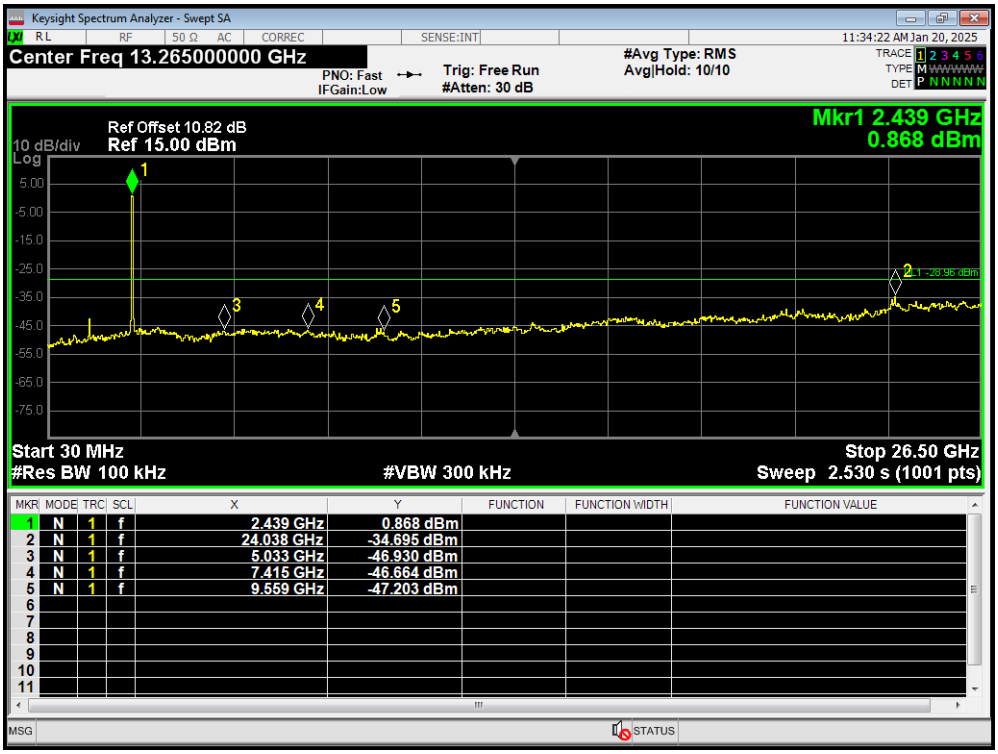
Tx. Spurious 802.11n(HT40) 2437MHz Ref



Tx. Spurious 802.11n(HT40) 2437MHz Emission



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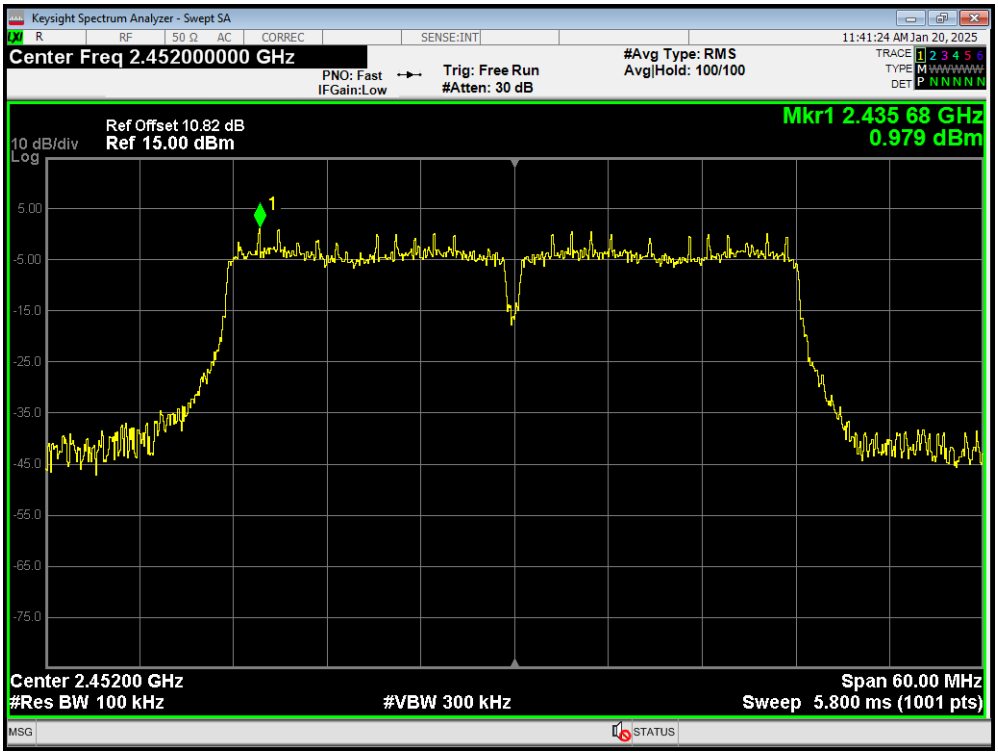
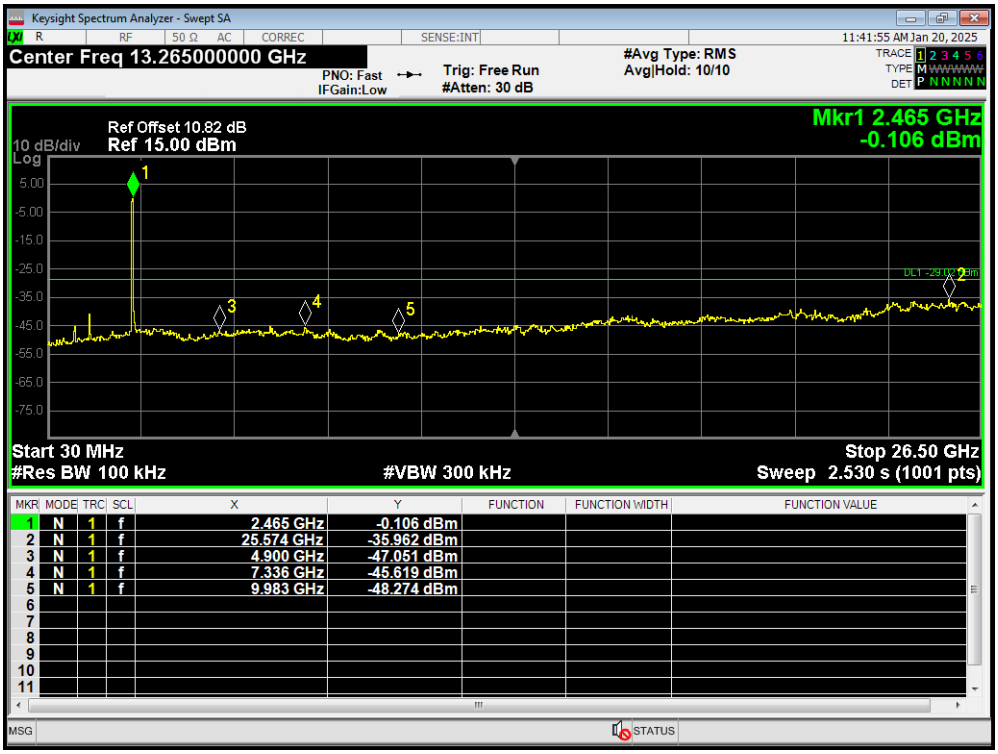
Tx. Spurious 802.11n(HT40) 2452MHz Ref



Tx. Spurious 802.11n(HT40) 2452MHz Emission



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5.6. Unwanted Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.
The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.
The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:
Set the spectrum analyzer in the following:
9kHz~150 kHz
RBW=200Hz, VBW=1kHz/ Sweep=AUTO
150 kHz~30MHz
RBW=9kHz, VBW=30kHz,/ Sweep=AUTO
Below 1GHz
RBW=100kHz / VBW=300kHz / Sweep=AUTO
a) Peak emission levels are measured by setting the instrument as follows:
Above 1GHz
PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
b) Average emission levels are measured by setting the instrument as follows:
Above 1GHz
AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO
c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

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averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

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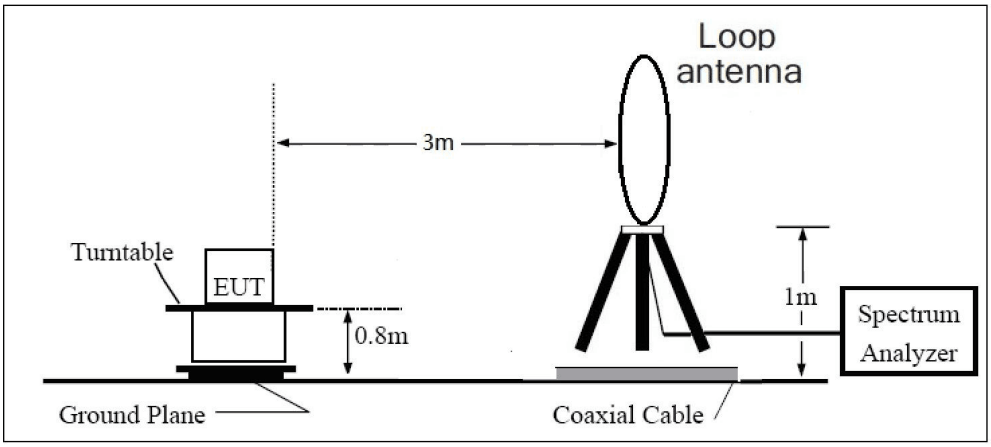
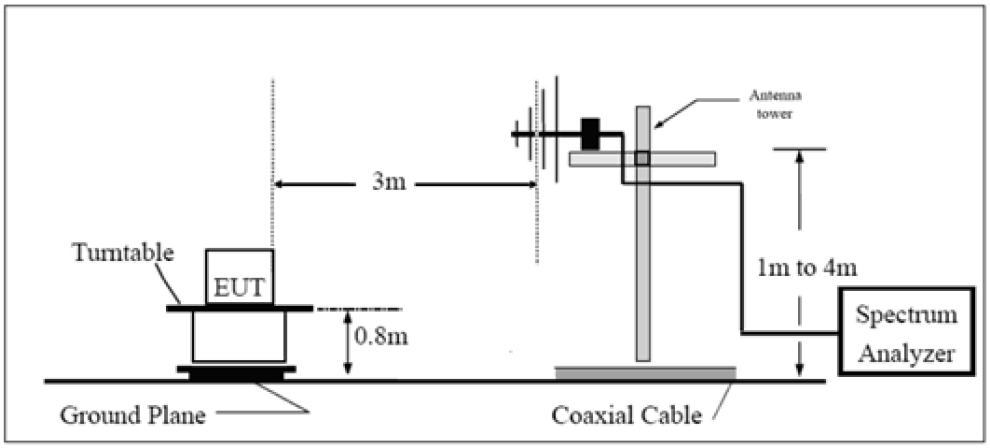
Test Setup

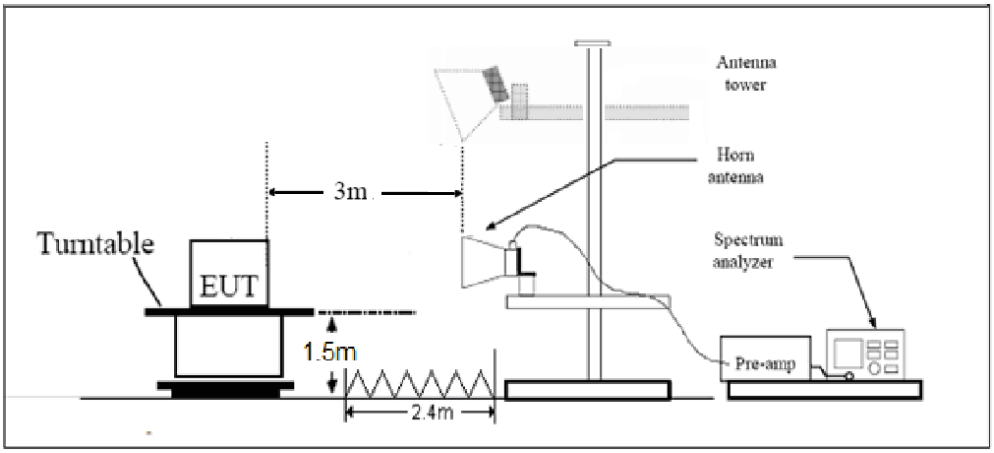
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

Rule Part 15.247(d) specifies that "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))."

Limit in restricted band

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBμV/m

Average Limit=54 dBμV/m

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Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1] 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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	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			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

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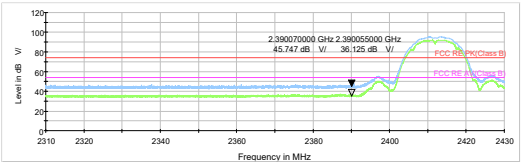
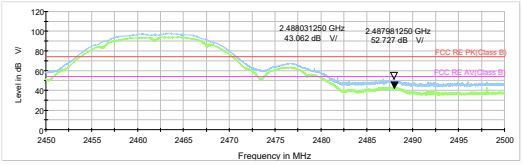
Test Results:

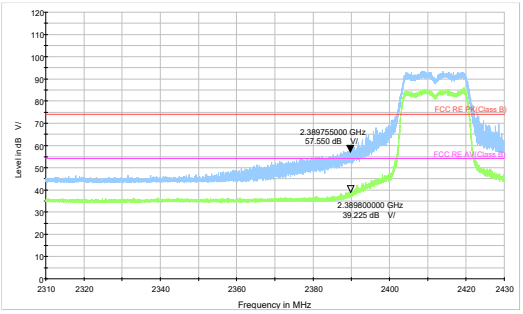
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.
A symbol (dB V/) in the test plot below means (dBμV/m)



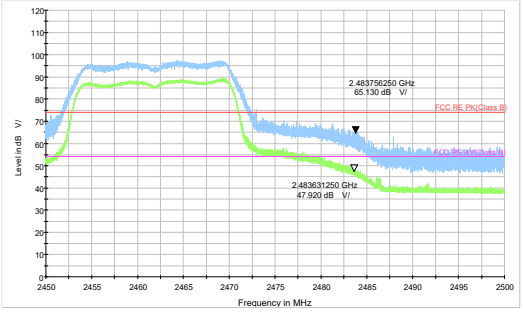
802.11b-Channel 1 Peak+ Average



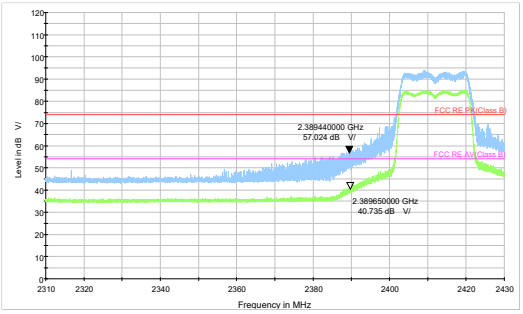
802.11b-Channel 11 Peak+ Average



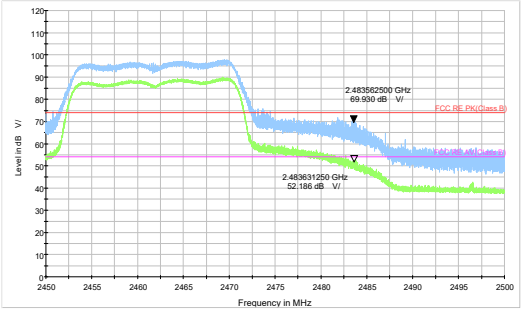
802.11g-Channel 1 Peak+ Average



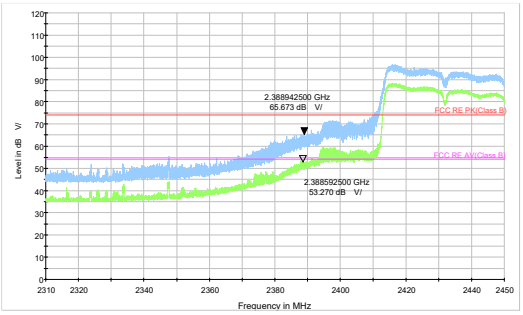
802.11g-Channel 11 Peak+ Average



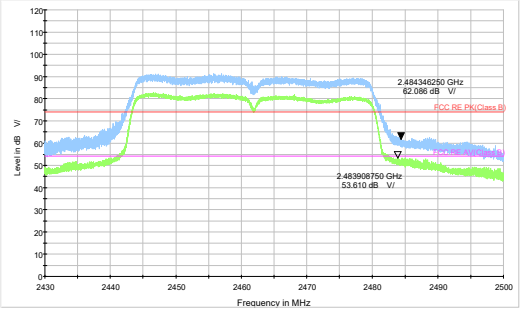
802.11n HT20-Channel 1 Peak+ Average



802.11n HT20-Channel 11 Peak+ Average



802.11n HT40-Channel 3 Peak+ Average



802.11n HT40–Channel 9 Peak+ Average

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Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz are more than 20dB below the limit are not reported.

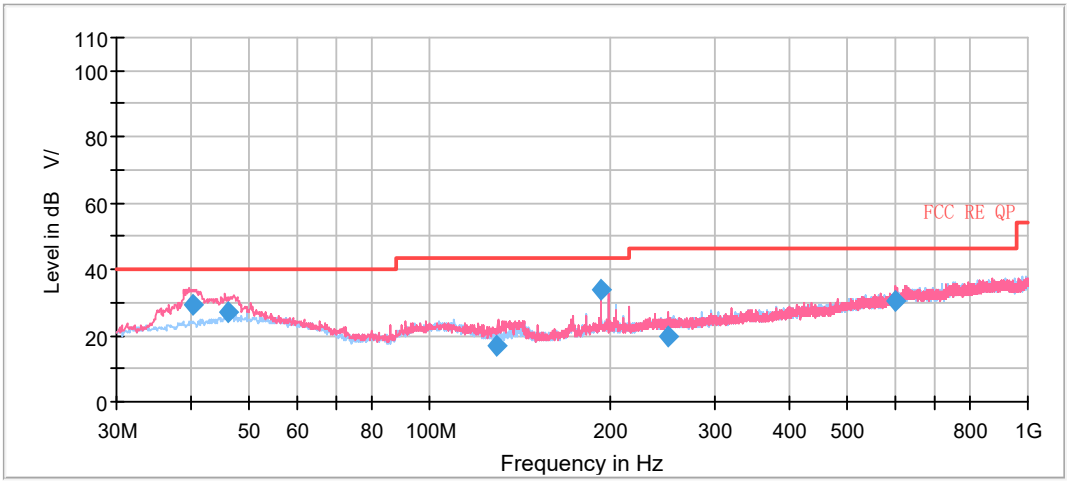
The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Continuous TX mode:

Wi-Fi 2.4GHz

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB V/) in the test plot below means (dBµV/m)



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
40.138750	29.27	40.00	10.73	100.0	V	114.0	19.8
46.120000	26.83	40.00	13.17	110.0	V	164.0	21.1
129.43125	16.92	43.50	26.58	100.0	V	119.0	15.9
193.84875	34.05	43.50	9.45	100.0	V	4.0	18.9
250.02875	19.80	46.00	26.20	110.0	V	198.0	20.6
599.22625	30.35	46.00	15.65	100.0	V	254.0	27.4

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak

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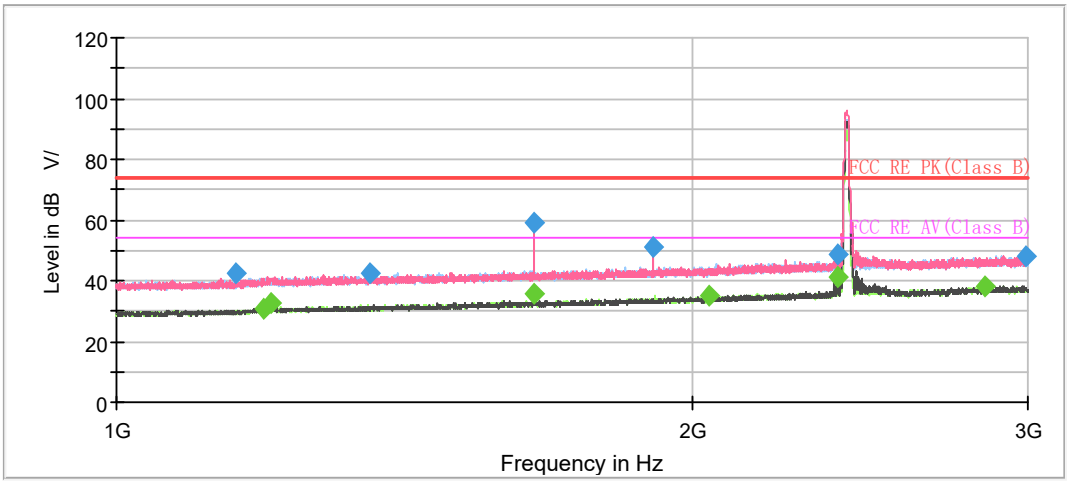
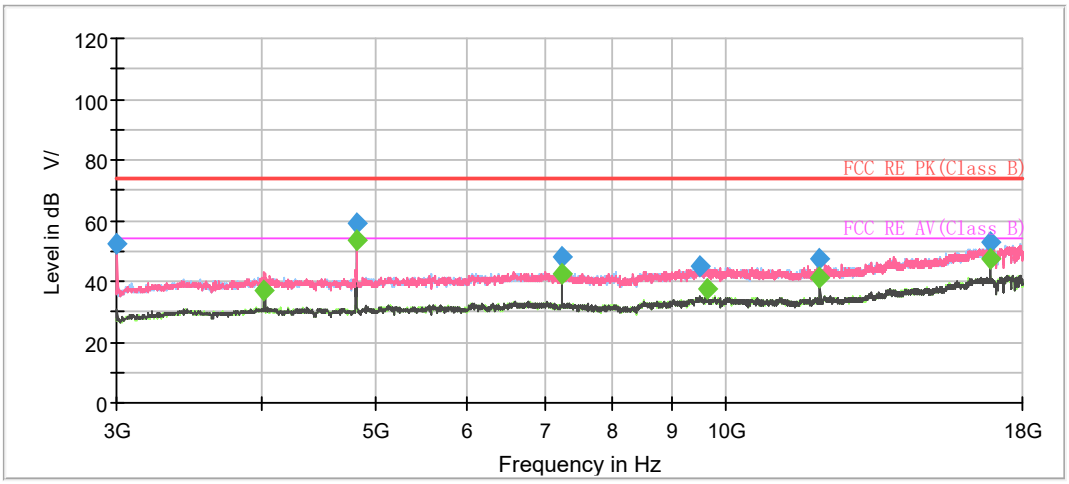
802.11b CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1155.250000	42.19	---	74.00	31.81	150.0	200.0	V	144.0	-9.7
1194.000000	---	30.82	54.00	23.18	150.0	200.0	V	175.0	-8.9
1205.750000	---	32.89	54.00	21.11	150.0	200.0	V	20.0	-8.8
1358.500000	42.58	---	74.00	31.42	150.0	100.0	V	157.0	-7.8
1652.750000	---	35.83	54.00	18.17	150.0	200.0	V	326.0	-6.1
1652.750000	59.23	---	74.00	14.77	150.0	200.0	V	326.0	-6.1
1908.250000	51.37	---	74.00	22.63	150.0	200.0	V	146.0	-5.0
2041.500000	---	35.14	54.00	18.86	150.0	100.0	V	292.0	-4.3
2384.750000	48.58	---	74.00	25.42	150.0	100.0	V	280.0	-2.7
2385.250000	---	41.06	54.00	12.94	150.0	100.0	V	252.0	-2.7
2852.000000	---	38.46	54.00	15.54	150.0	100.0	H	70.0	-1.1
2990.250000	48.05	---	74.00	25.95	150.0	100.0	H	40.0	-0.6
4822.500000	---	53.80	54.00	0.20	150.0	100.0	V	170.0	-6.1

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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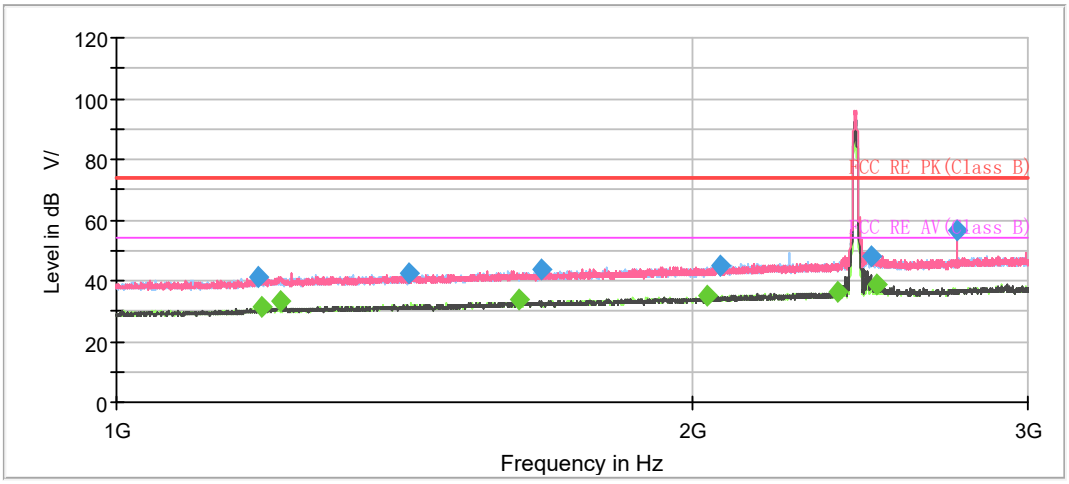
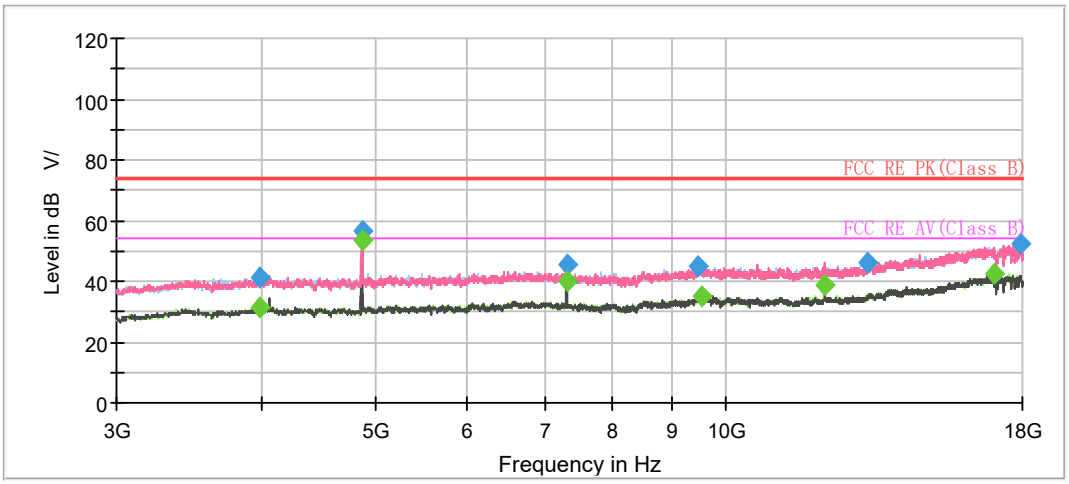
802.11b CH6



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1185.500000	40.95	---	74.00	33.05	150.0	100.0	H	119.0	-9.1
1191.500000	---	31.10	54.00	22.90	150.0	200.0	V	255.0	-9.0
1218.250000	---	33.00	54.00	21.00	150.0	200.0	V	30.0	-8.7
1423.250000	42.33	---	74.00	31.67	150.0	200.0	H	192.0	-7.4
1624.750000	---	34.13	54.00	19.87	150.0	100.0	V	337.0	-6.2
1667.750000	43.66	---	74.00	30.34	150.0	100.0	V	133.0	-6.1
2037.750000	---	34.86	54.00	19.14	150.0	100.0	H	204.0	-4.3
2072.500000	44.89	---	74.00	29.11	150.0	100.0	V	28.0	-4.0
2388.250000	---	36.04	54.00	17.96	150.0	100.0	V	50.0	-2.7
2485.250000	48.03	---	74.00	25.97	150.0	100.0	V	251.0	-2.2
2501.500000	---	38.77	54.00	15.23	150.0	100.0	V	274.0	-2.1
2751.750000	56.48	---	74.00	17.52	150.0	200.0	V	130.0	-1.5
4873.125000	---	53.32	54.00	0.68	150.0	100.0	V	222.0	-5.8

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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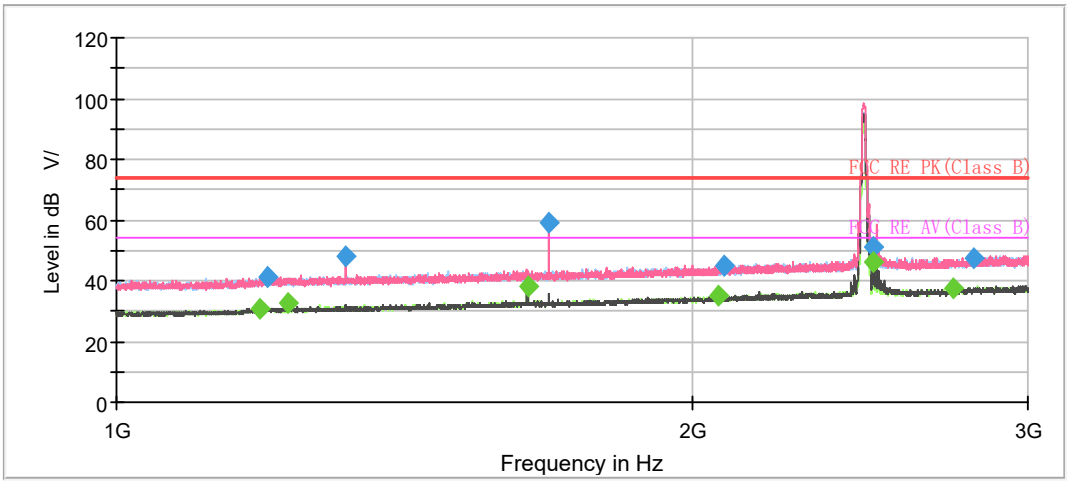
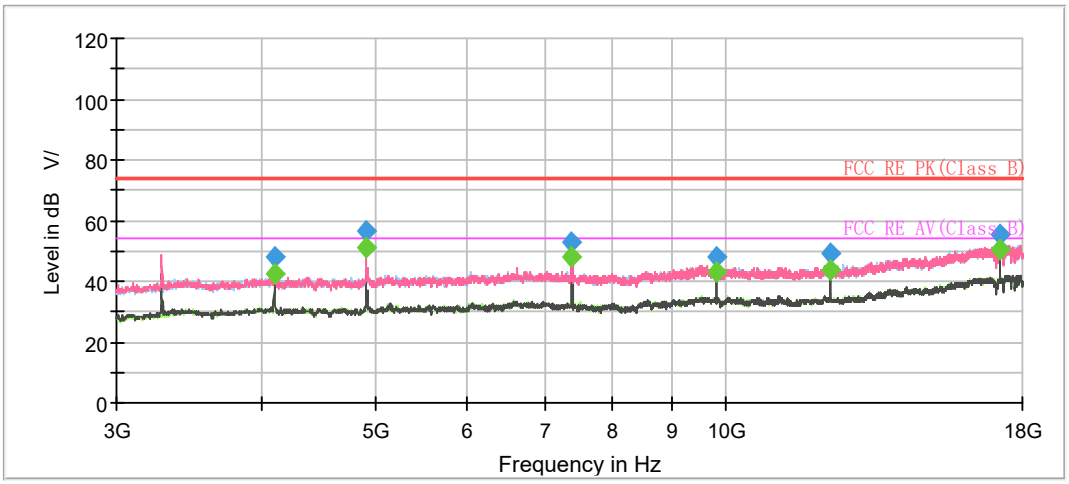
802.11b CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1190.000000	---	30.88	54.00	23.12	150.0	100.0	H	273.0	-9.0
1198.250000	41.11	---	74.00	32.89	150.0	100.0	H	64.0	-8.8
1230.750000	---	32.85	54.00	21.15	150.0	200.0	V	41.0	-8.7
1319.250000	47.72	---	74.00	26.28	150.0	200.0	V	348.0	-8.1
1641.250000	---	37.87	54.00	16.13	150.0	100.0	V	320.0	-6.2
1683.000000	58.93	---	74.00	15.07	150.0	200.0	V	228.0	-6.0
2067.500000	---	35.01	54.00	18.99	150.0	100.0	H	16.0	-4.0
2079.500000	44.73	---	74.00	29.27	150.0	100.0	H	160.0	-3.9
2488.500000	---	46.14	54.00	7.86	150.0	100.0	V	277.0	-2.2
2489.750000	51.17	---	74.00	22.83	150.0	100.0	V	275.0	-2.1
2740.000000	---	37.40	54.00	16.60	150.0	100.0	H	38.0	-1.5
2809.000000	47.36	---	74.00	26.64	150.0	100.0	V	195.0	-1.2
4923.750000	---	51.31	54.00	2.69	150.0	100.0	V	232.0	-5.3
7383.750000	---	48.17	54.00	5.83	150.0	100.0	V	250.0	-2.8
17236.87500	---	50.47	54.00	3.53	150.0	100.0	V	229.0	9.2

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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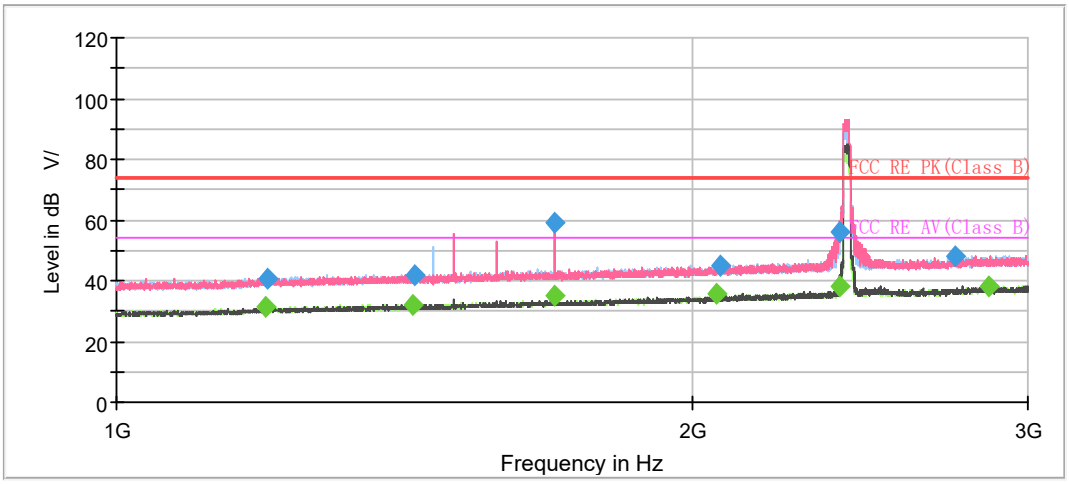
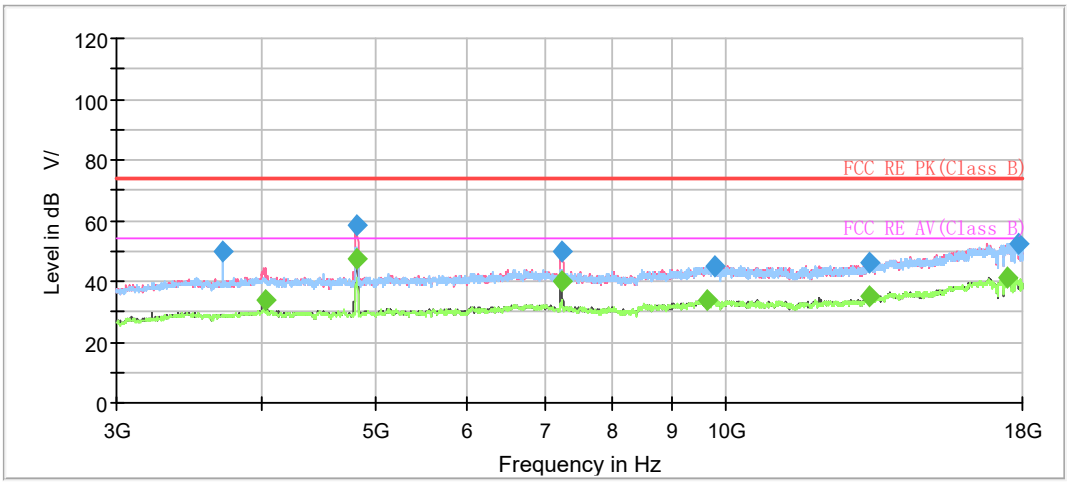
802.11g CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.250000	---	31.08	54.00	22.92	150.0	100.0	H	0.0	-8.9
1198.250000	40.87	---	74.00	33.13	150.0	100.0	V	120.0	-8.8
1428.500000	---	32.29	54.00	21.71	150.0	100.0	V	302.0	-7.4
1431.750000	42.14	---	74.00	31.86	150.0	100.0	V	280.0	-7.4
1696.000000	---	35.22	54.00	18.78	150.0	200.0	V	1.0	-6.0
1696.000000	58.91	---	74.00	15.09	150.0	200.0	V	1.0	-6.0
2061.750000	---	35.66	54.00	18.34	150.0	200.0	V	93.0	-4.1
2070.000000	44.92	---	74.00	29.08	150.0	100.0	H	99.0	-4.0
2389.500000	55.77	---	74.00	18.23	150.0	100.0	V	294.0	-2.6
2389.750000	---	38.29	54.00	15.71	150.0	100.0	V	273.0	-2.6
2746.250000	48.14	---	74.00	25.86	150.0	200.0	V	202.0	-1.5
2858.750000	---	38.10	54.00	15.90	150.0	200.0	H	230.0	-1.1

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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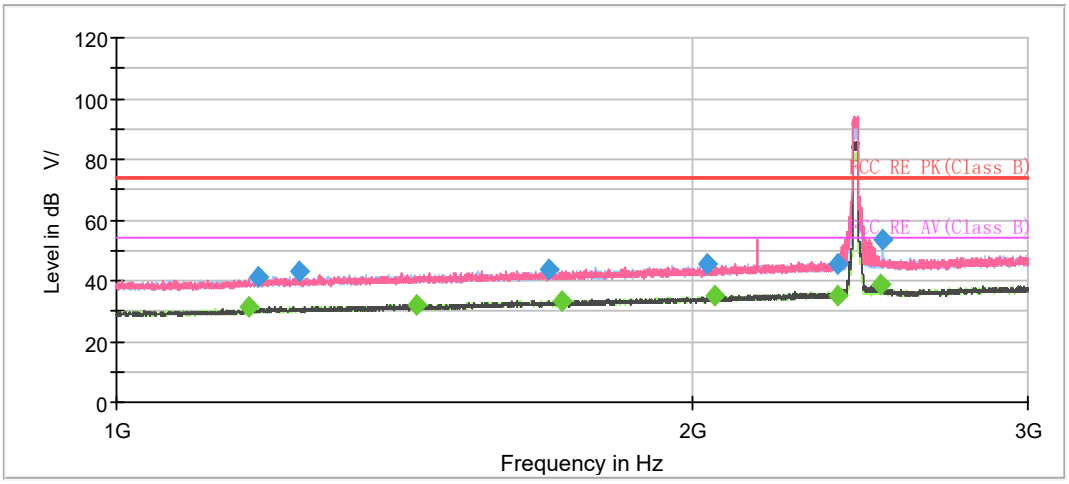
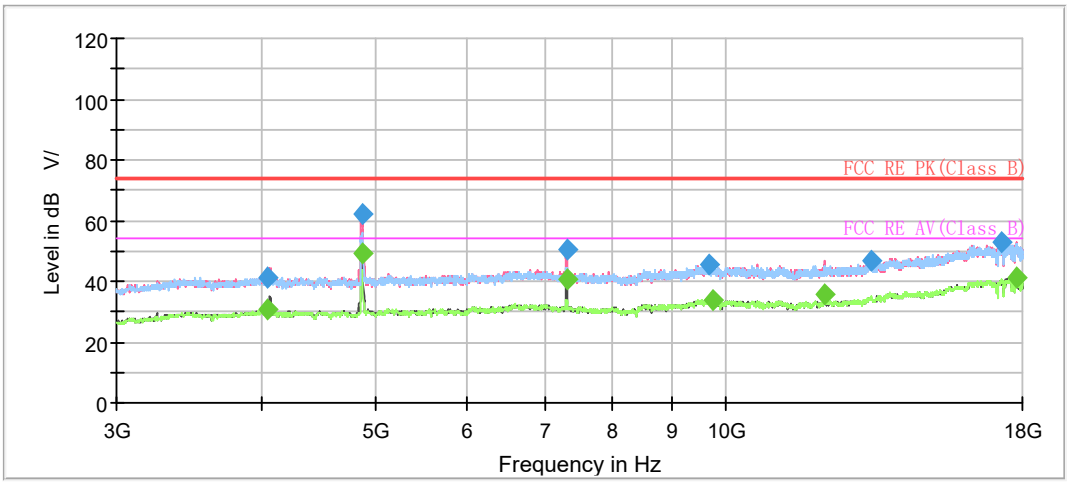
802.11g CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1172.000000	---	31.18	54.00	22.82	150.0	100.0	H	158.0	-9.4
1186.250000	41.03	---	74.00	32.97	150.0	200.0	V	189.0	-9.1
1245.750000	42.81	---	74.00	31.19	150.0	200.0	V	42.0	-8.6
1436.500000	---	32.11	54.00	21.89	150.0	100.0	V	292.0	-7.3
1685.750000	43.43	---	74.00	30.57	150.0	100.0	H	268.0	-6.0
1710.250000	---	33.40	54.00	20.60	150.0	200.0	V	349.0	-5.9
2039.000000	45.63	---	74.00	28.37	150.0	200.0	H	278.0	-4.3
2057.750000	---	35.04	54.00	18.96	150.0	100.0	H	96.0	-4.1
2383.000000	---	35.37	54.00	18.63	150.0	100.0	V	282.0	-2.7
2385.750000	45.70	---	74.00	28.30	150.0	100.0	V	310.0	-2.7
2510.750000	---	38.50	54.00	15.50	150.0	100.0	V	278.0	-2.1
2519.250000	53.48	---	74.00	20.52	150.0	200.0	H	318.0	-2.2
4873.125000	---	49.42	54.00	4.58	500.0	100.0	V	203.0	-5.8

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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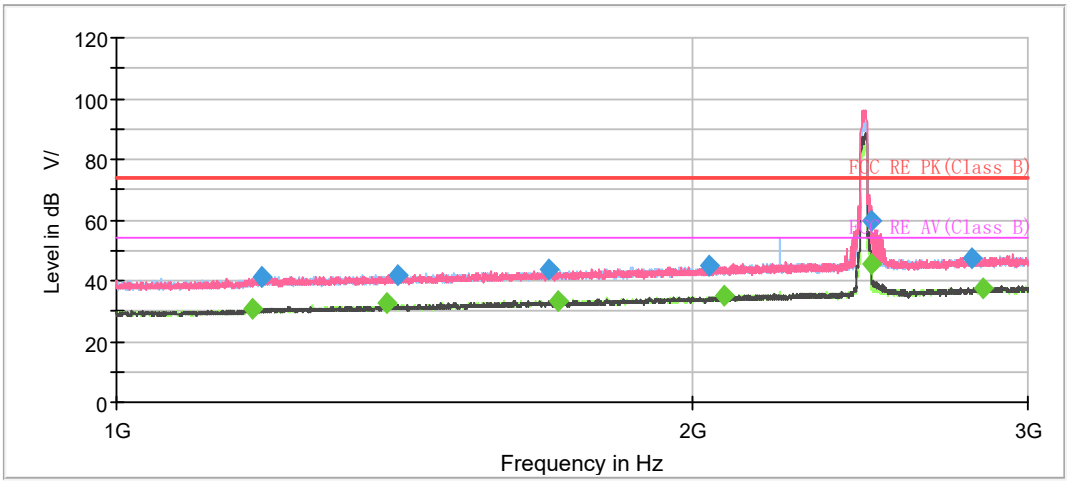
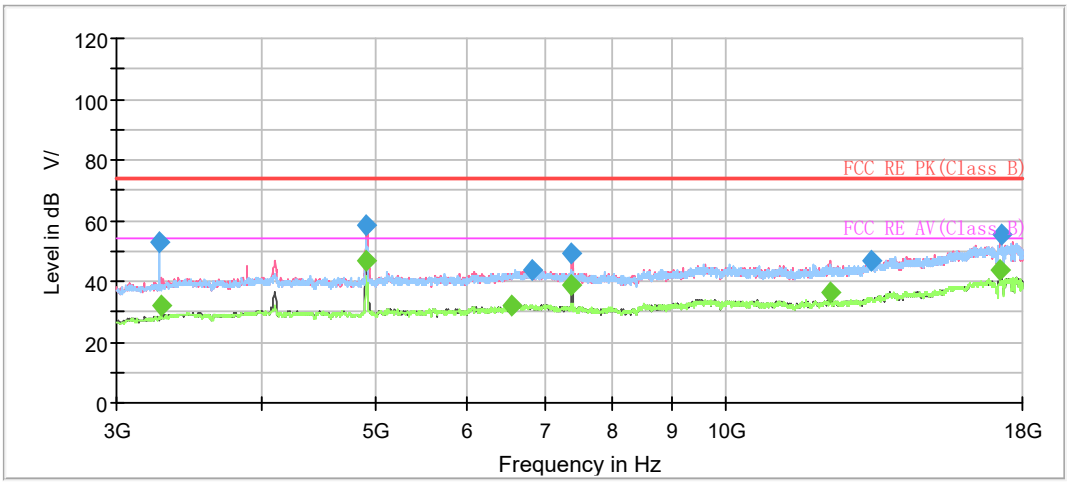
802.11g CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1177.000000	---	30.87	54.00	23.13	150.0	200.0	H	33.0	-9.3
1192.000000	41.04	---	74.00	32.96	150.0	100.0	H	189.0	-9.0
1386.000000	---	32.56	54.00	21.44	150.0	100.0	H	215.0	-7.7
1405.250000	41.86	---	74.00	32.14	150.0	100.0	V	341.0	-7.6
1682.500000	43.52	---	74.00	30.48	150.0	100.0	H	11.0	-6.0
1702.500000	---	33.40	54.00	20.60	150.0	200.0	V	239.0	-6.0
2041.500000	44.68	---	74.00	29.32	150.0	100.0	H	218.0	-4.3
2078.000000	---	35.01	54.00	18.99	150.0	100.0	V	293.0	-3.9
2483.750000	---	45.75	54.00	8.25	150.0	100.0	V	293.0	-2.2
2484.750000	59.79	---	74.00	14.21	150.0	100.0	V	276.0	-2.2
2801.750000	47.23	---	74.00	26.77	150.0	200.0	V	129.0	-1.2
2839.750000	---	37.71	54.00	16.29	150.0	200.0	H	0.0	-1.1

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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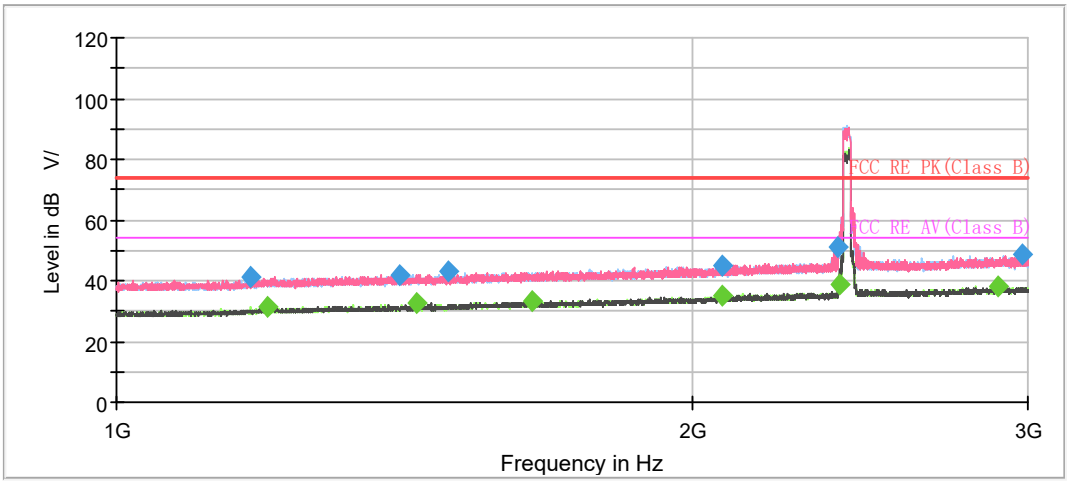
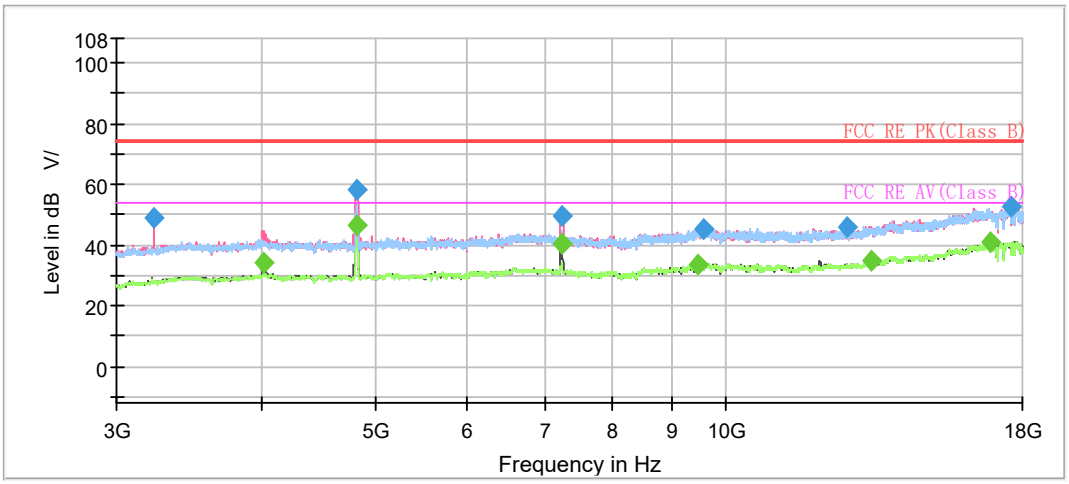
802.11n (HT20) CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1176.750000	41.27	---	74.00	32.73	150.0	200.0	H	13.0	-9.3
1200.250000	---	31.31	54.00	22.69	150.0	200.0	V	54.0	-8.8
1406.750000	42.06	---	74.00	31.94	150.0	200.0	H	0.0	-7.5
1436.500000	---	32.67	54.00	21.33	150.0	200.0	H	159.0	-7.3
1492.250000	43.37	---	74.00	30.63	150.0	200.0	H	117.0	-7.1
1652.000000	---	33.25	54.00	20.75	150.0	200.0	V	347.0	-6.1
2075.000000	44.81	---	74.00	29.19	150.0	200.0	V	309.0	-4.0
2077.250000	---	35.38	54.00	18.62	150.0	200.0	H	157.0	-3.9
2385.750000	51.30	---	74.00	22.70	150.0	200.0	H	315.0	-2.7
2389.250000	---	38.74	54.00	15.26	150.0	200.0	H	322.0	-2.7
2891.750000	---	38.30	54.00	15.70	150.0	200.0	V	204.0	-1.1
2977.750000	48.49	---	74.00	25.51	150.0	200.0	H	100.0	-0.7

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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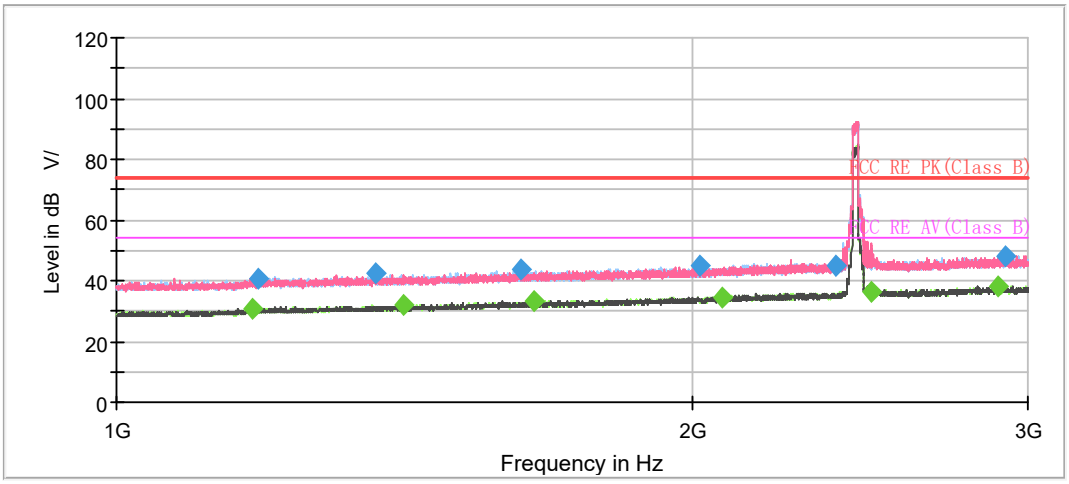
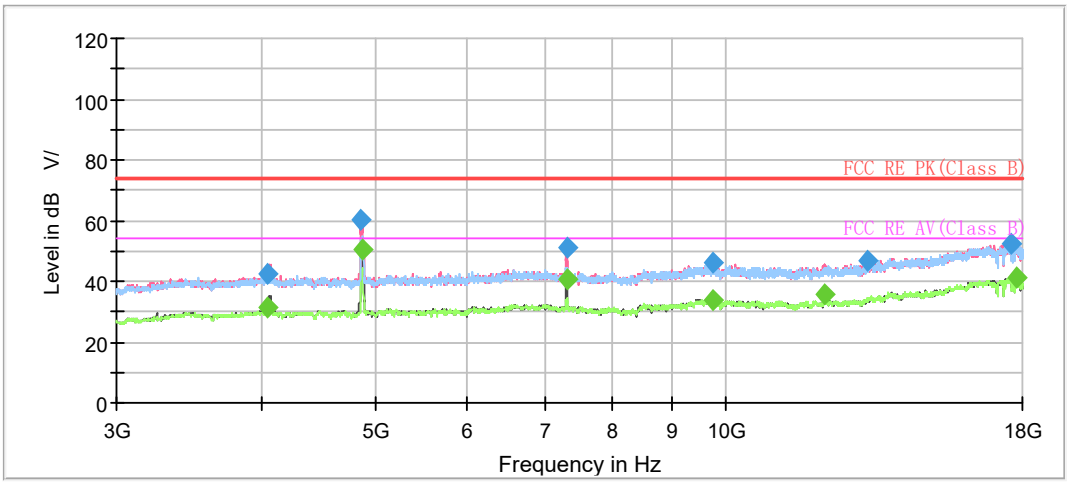
802.11n (HT20) CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.000000	---	30.99	54.00	23.01	150.0	200.0	V	237.0	-9.3
1186.000000	40.51	---	74.00	33.49	150.0	200.0	V	257.0	-9.1
1368.000000	42.40	---	74.00	31.60	150.0	200.0	H	102.0	-7.7
1414.250000	---	31.90	54.00	22.10	150.0	200.0	V	308.0	-7.5
1627.250000	43.55	---	74.00	30.45	150.0	200.0	H	97.0	-6.2
1653.250000	---	33.26	54.00	20.74	150.0	200.0	V	240.0	-6.1
2019.250000	44.67	---	74.00	29.33	150.0	200.0	V	213.0	-4.4
2074.500000	---	34.70	54.00	19.30	150.0	200.0	H	231.0	-4.0
2380.000000	45.08	---	74.00	28.92	150.0	200.0	H	295.0	-2.7
2486.250000	---	36.50	54.00	17.50	150.0	200.0	V	267.0	-2.2
2895.000000	---	38.03	54.00	15.97	150.0	200.0	V	145.0	-1.1
2920.750000	48.01	---	74.00	25.99	150.0	200.0	V	281.0	-1.0
4873.125000	---	50.27	54.00	3.73	500.0	100.0	V	0.0	-5.8

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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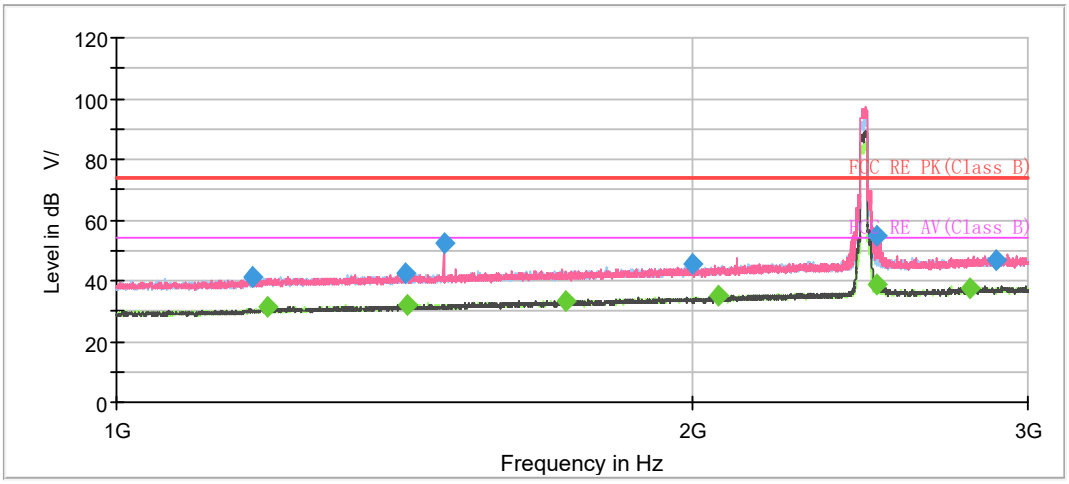
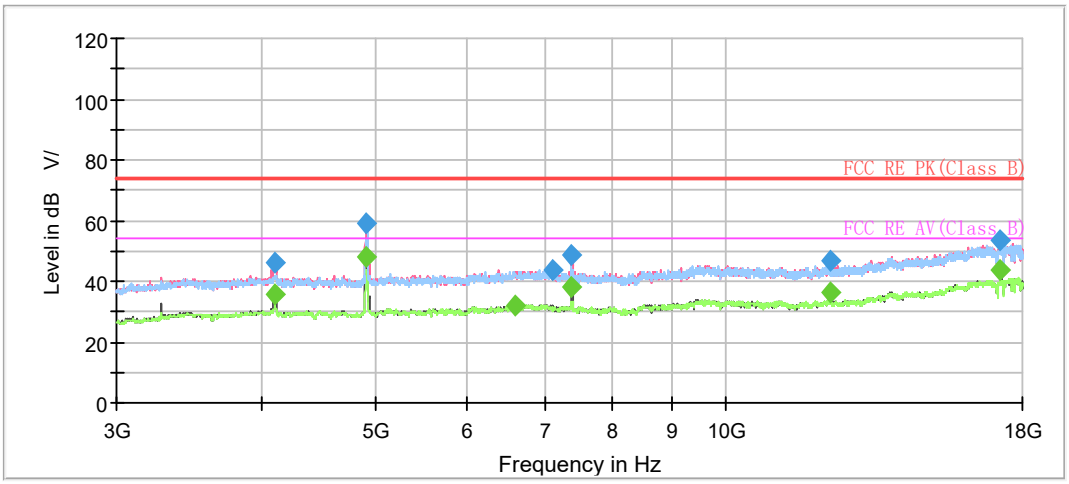
802.11n (HT20) CH11



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.750000	40.94	---	74.00	33.06	150.0	100.0	H	261.0	-9.2
1199.500000	---	31.10	54.00	22.90	150.0	200.0	H	124.0	-8.8
1416.750000	42.71	---	74.00	31.29	150.0	200.0	V	167.0	-7.4
1418.250000	---	32.17	54.00	21.83	150.0	200.0	H	266.0	-7.4
1483.500000	52.46	---	74.00	21.54	150.0	200.0	V	267.0	-7.1
1718.500000	---	33.38	54.00	20.62	150.0	200.0	H	196.0	-5.9
2002.250000	45.48	---	74.00	28.52	150.0	200.0	V	27.0	-4.5
2064.000000	---	35.13	54.00	18.87	150.0	100.0	V	353.0	-4.1
2498.500000	54.67	---	74.00	19.33	150.0	100.0	V	261.0	-2.1
2502.250000	---	38.83	54.00	15.17	150.0	100.0	V	256.0	-2.1
2796.500000	---	37.73	54.00	16.27	150.0	100.0	H	63.0	-1.3
2886.500000	46.52	---	74.00	27.48	150.0	200.0	H	297.0	-1.1

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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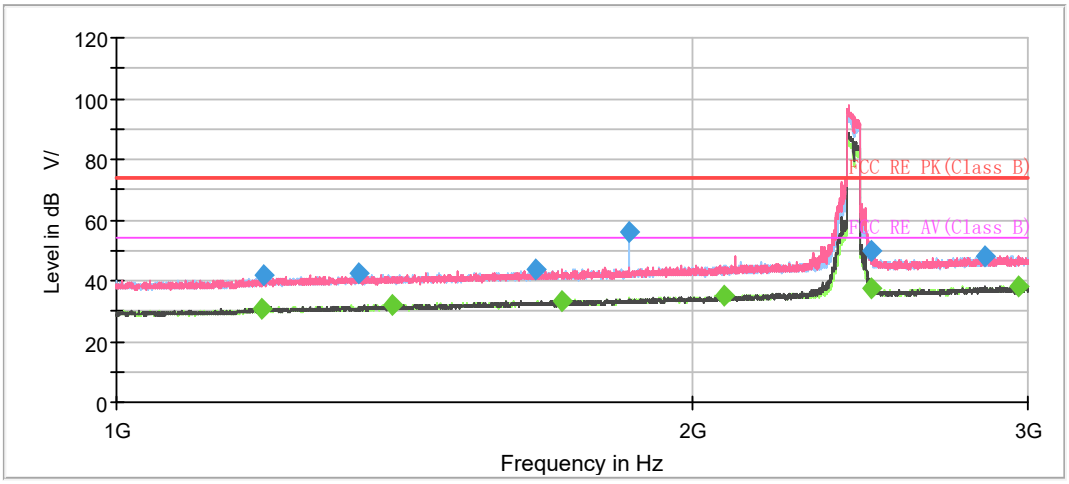
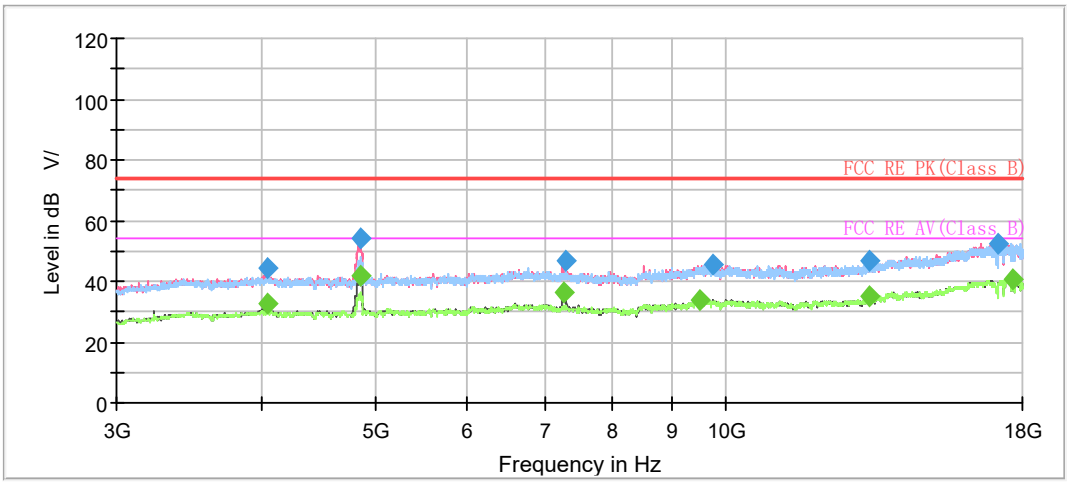
802.11n (HT40) CH3



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1192.500000	---	30.85	54.00	23.15	150.0	100.0	V	358.0	-9.0
1195.250000	41.64	---	74.00	32.36	150.0	200.0	H	354.0	-8.9
1340.000000	42.36	---	74.00	31.64	150.0	200.0	V	184.0	-8.0
1394.500000	---	32.26	54.00	21.74	150.0	200.0	H	256.0	-7.6
1658.250000	43.96	---	74.00	30.04	150.0	100.0	H	107.0	-6.1
1709.000000	---	33.52	54.00	20.48	150.0	100.0	H	248.0	-5.9
1854.250000	55.86	---	74.00	18.14	150.0	200.0	H	142.0	-5.2
2078.750000	---	34.95	54.00	19.05	150.0	200.0	H	310.0	-3.9
2484.500000	---	37.24	54.00	16.76	150.0	100.0	V	95.0	-2.2
2485.000000	49.74	---	74.00	24.26	150.0	200.0	V	20.0	-2.2
2846.250000	48.26	---	74.00	25.74	150.0	100.0	H	40.0	-1.1
2963.500000	---	38.34	54.00	15.66	150.0	200.0	V	123.0	-0.8

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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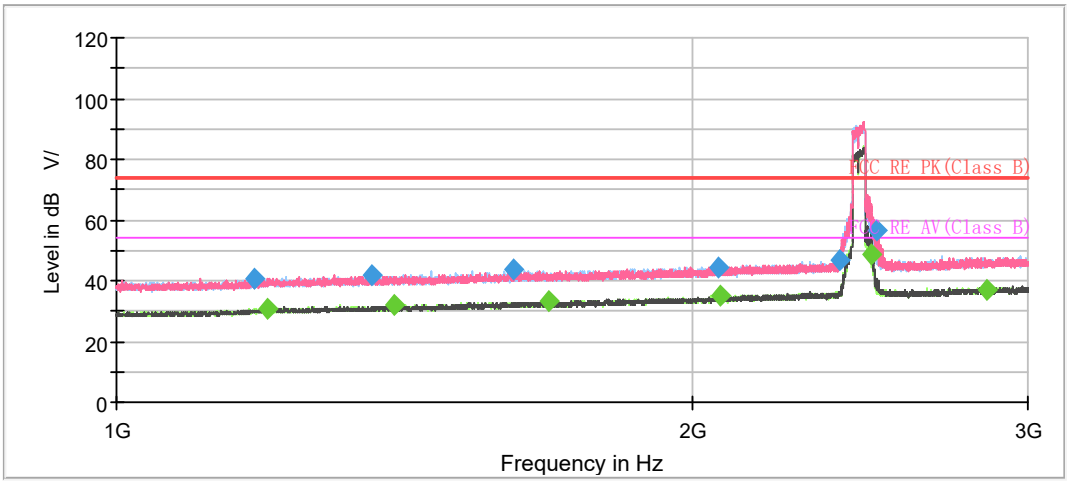
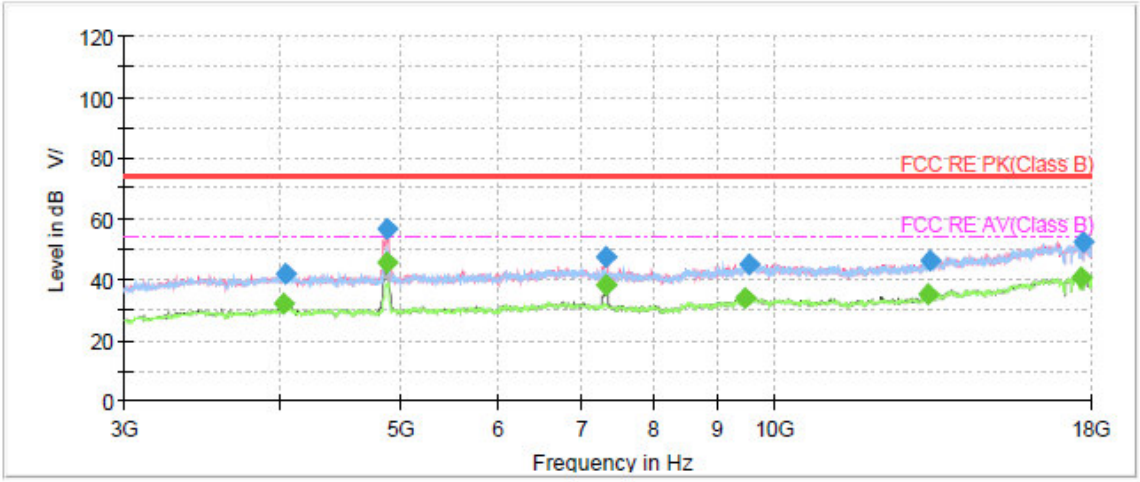
802.11n (HT40) CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4035.000000	---	31.79	54.00	22.21	500.0	100.0	V	208.0	-6.7
4042.500000	41.64	---	74.00	32.36	500.0	100.0	V	208.0	-6.7
4875.000000	---	45.37	54.00	8.63	500.0	100.0	V	33.0	-5.8
4884.375000	56.80	---	74.00	17.20	500.0	100.0	V	201.0	-5.7
7314.375000	47.60	---	74.00	26.40	500.0	100.0	V	229.0	-3.0
7316.250000	---	38.33	54.00	15.67	500.0	100.0	V	236.0	-3.0
9472.500000	---	34.02	54.00	19.98	500.0	100.0	V	333.0	-0.1
9564.375000	45.10	---	74.00	28.90	500.0	200.0	H	81.0	-0.4
13321.87500	---	34.78	54.00	19.22	500.0	100.0	V	351.0	2.3
13350.00000	46.03	---	74.00	27.97	500.0	100.0	H	49.0	2.4
17686.87500	---	40.84	54.00	13.16	500.0	100.0	H	238.0	10.3
17711.25000	52.43	---	74.00	21.57	500.0	100.0	H	329.0	10.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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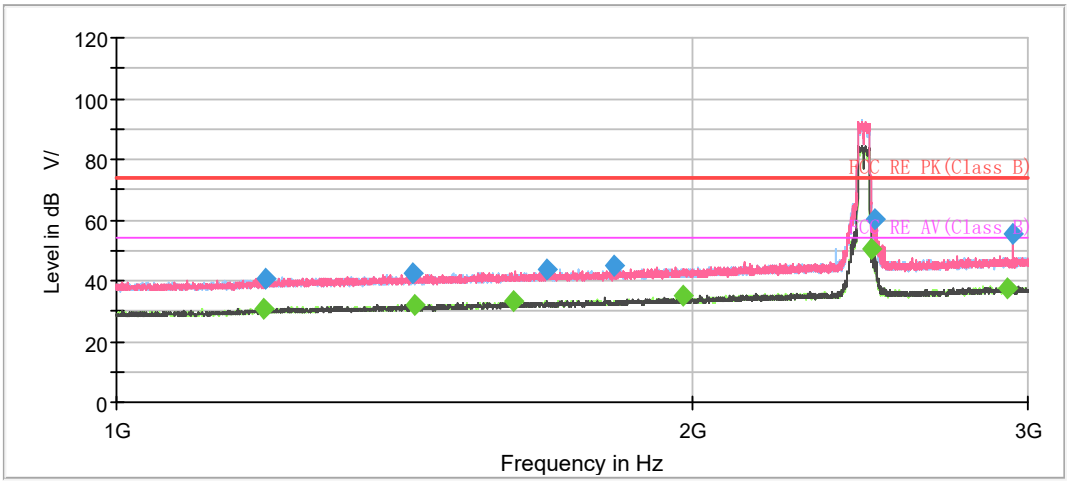
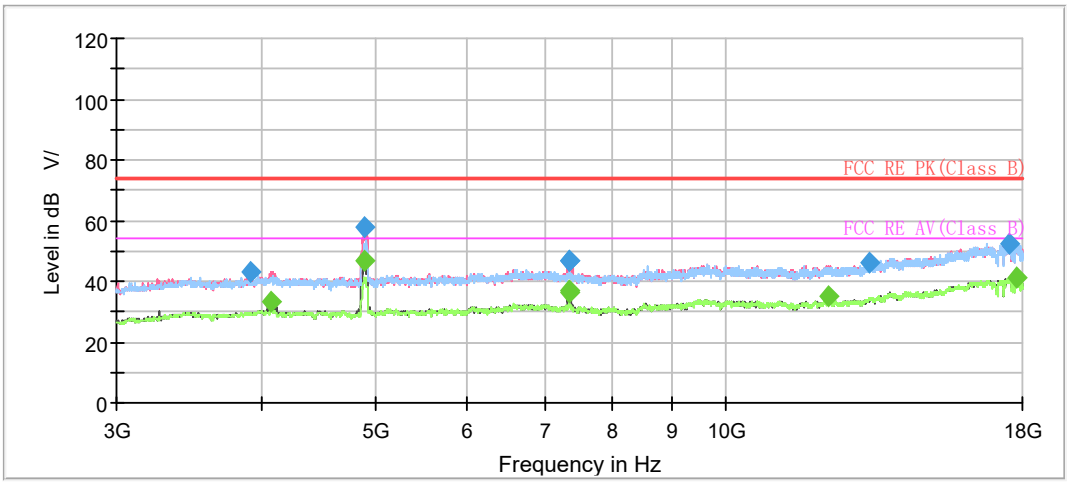
802.11n (HT40) CH9



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

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Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1193.750000	---	30.84	54.00	23.16	150.0	200.0	H	111.0	-8.9
1196.750000	40.56	---	74.00	33.44	150.0	200.0	V	353.0	-8.9
1430.750000	42.24	---	74.00	31.76	150.0	200.0	H	86.0	-7.4
1432.750000	---	32.24	54.00	21.76	150.0	200.0	H	131.0	-7.4
1615.500000	---	33.46	54.00	20.54	150.0	200.0	V	0.0	-6.3
1681.250000	43.85	---	74.00	30.15	150.0	200.0	H	148.0	-6.0
1821.500000	44.64	---	74.00	29.36	150.0	200.0	H	101.0	-5.3
1978.000000	---	35.04	54.00	18.96	150.0	200.0	V	240.0	-4.7
2483.750000	---	50.66	54.00	3.34	150.0	200.0	H	320.0	-2.2
2493.750000	60.00	---	74.00	14.00	150.0	200.0	H	345.0	-2.1
2928.750000	---	37.27	54.00	16.73	150.0	200.0	H	18.0	-1.0
2945.750000	55.65	---	74.00	18.35	150.0	200.0	V	358.0	-0.9

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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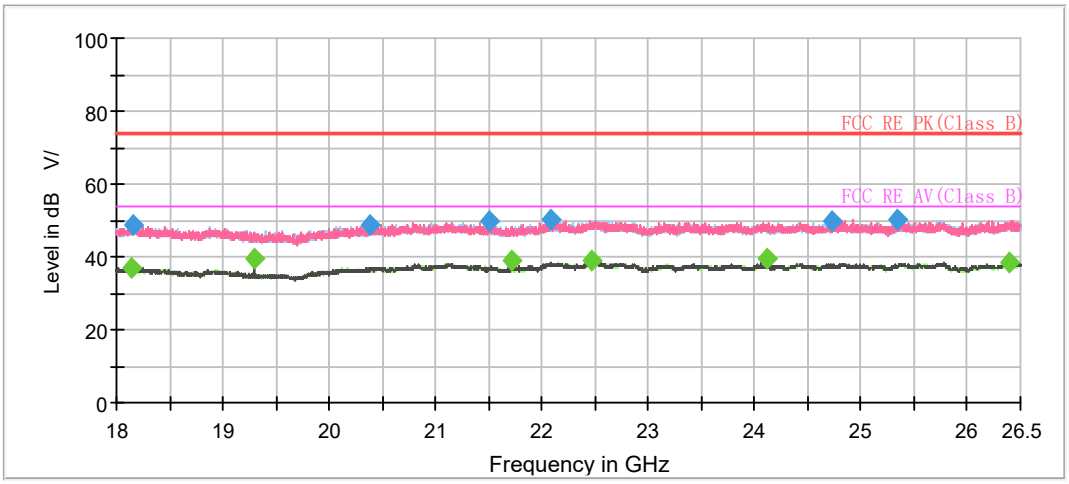
During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11b, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18145.56250	---	37.16	54.00	16.84	500.0	200.0	V	223.0	-3.8
18153.00000	48.82	---	74.00	25.18	500.0	200.0	H	141.0	-3.8
19295.18750	---	39.32	54.00	14.68	500.0	100.0	V	349.0	-5.7
20375.75000	48.65	---	74.00	25.35	500.0	200.0	H	8.0	-3.3
21498.81250	49.59	---	74.00	24.41	500.0	100.0	V	0.0	-2.5
21709.18750	---	38.89	54.00	15.11	500.0	100.0	V	34.0	-2.1
22081.06250	50.30	---	74.00	23.70	500.0	200.0	H	251.0	-1.8
22468.87500	---	38.81	54.00	15.19	500.0	100.0	H	290.0	-1.5
24118.93750	---	39.26	54.00	14.74	500.0	100.0	V	330.0	-1.2
24726.68750	49.52	---	74.00	24.48	500.0	200.0	V	292.0	-0.7
25351.43750	50.11	---	74.00	23.89	500.0	100.0	V	40.0	-0.7
26402.25000	---	38.44	54.00	15.56	500.0	200.0	H	120.0	-0.2

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit –MAX Peak/ Average

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5.7. Conducted Emission

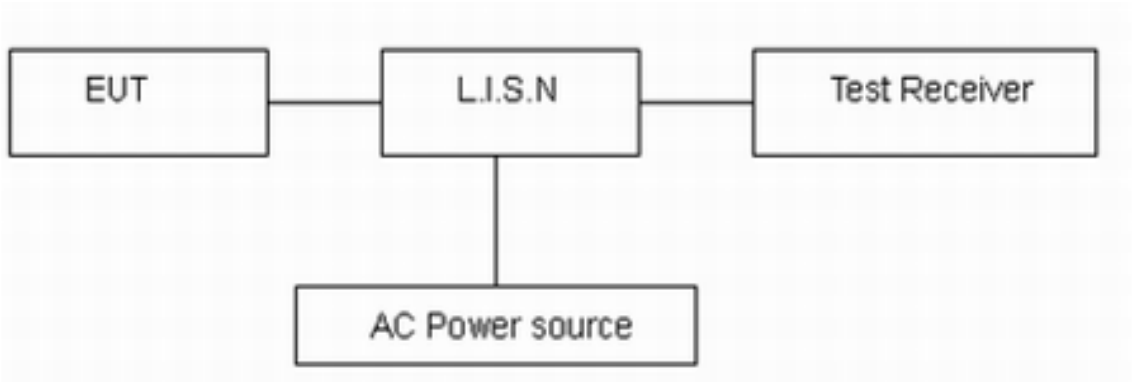
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.
The measurement result should include both L line and N line.
The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 120V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 2.69 dB.

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Test Results:

The equipment is not connected to the public network, so test items do not apply.

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6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power Sensor	R&S	NRP18S	101954	2024-05-07	2025-05-06
Signal Analyzer	KEYSIGHT	N9020A	MY51330870	2024-05-07	2025-05-06
Unwanted Emissions					
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Software	R&S	EMC32	9.26.01	/	/

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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

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